AUDIO / VIDEO STEREO RECEIVER

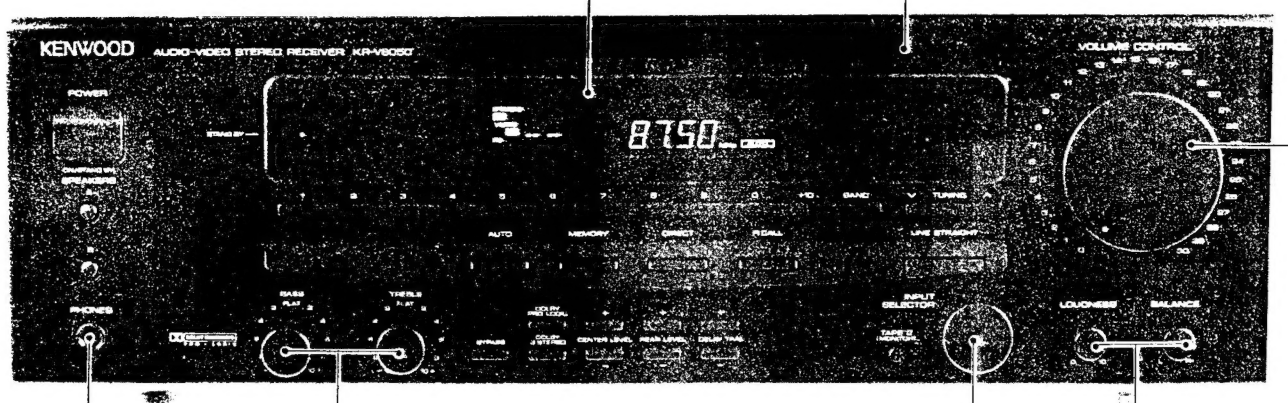
KR-V6050/7050

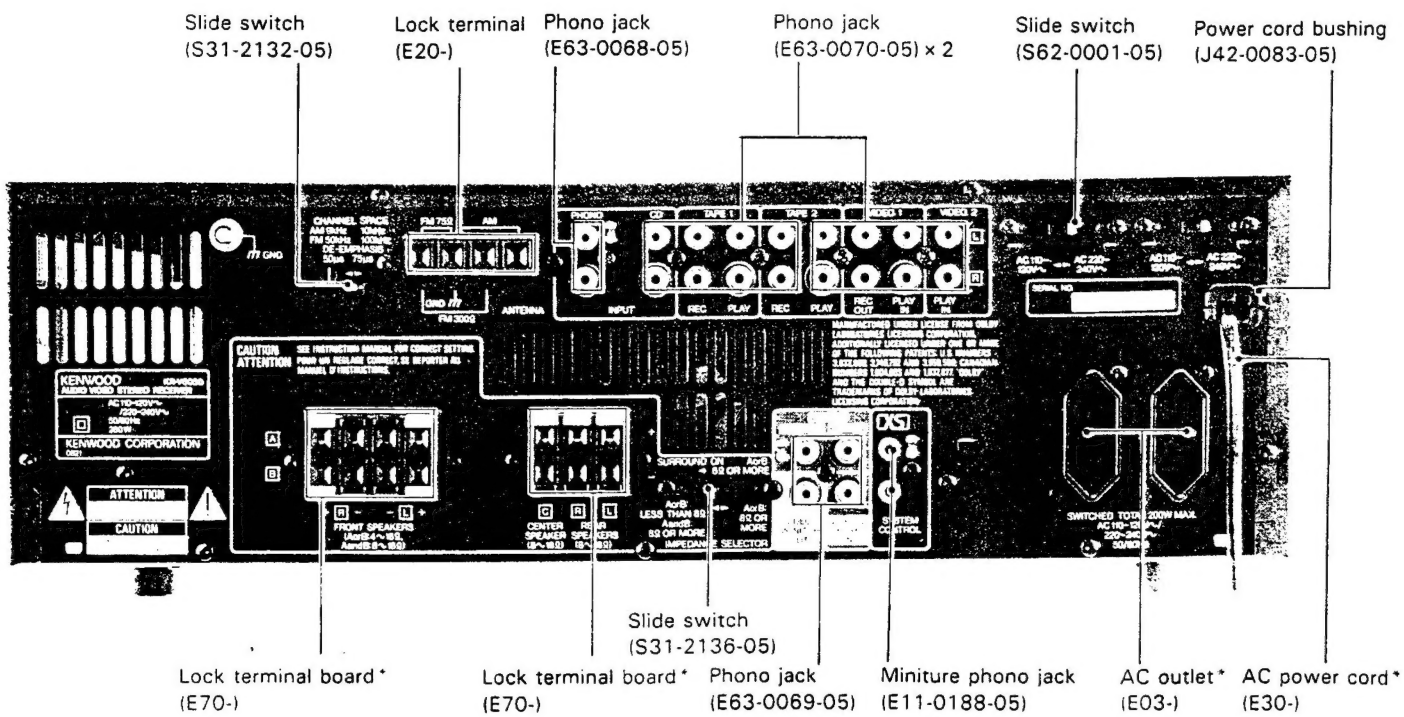
SERVICE MANUAL

KENWOOD

B51-4700-00(S)4404

KR-V6050





*Refer to parts list on page 83.

KR-V6050/7050

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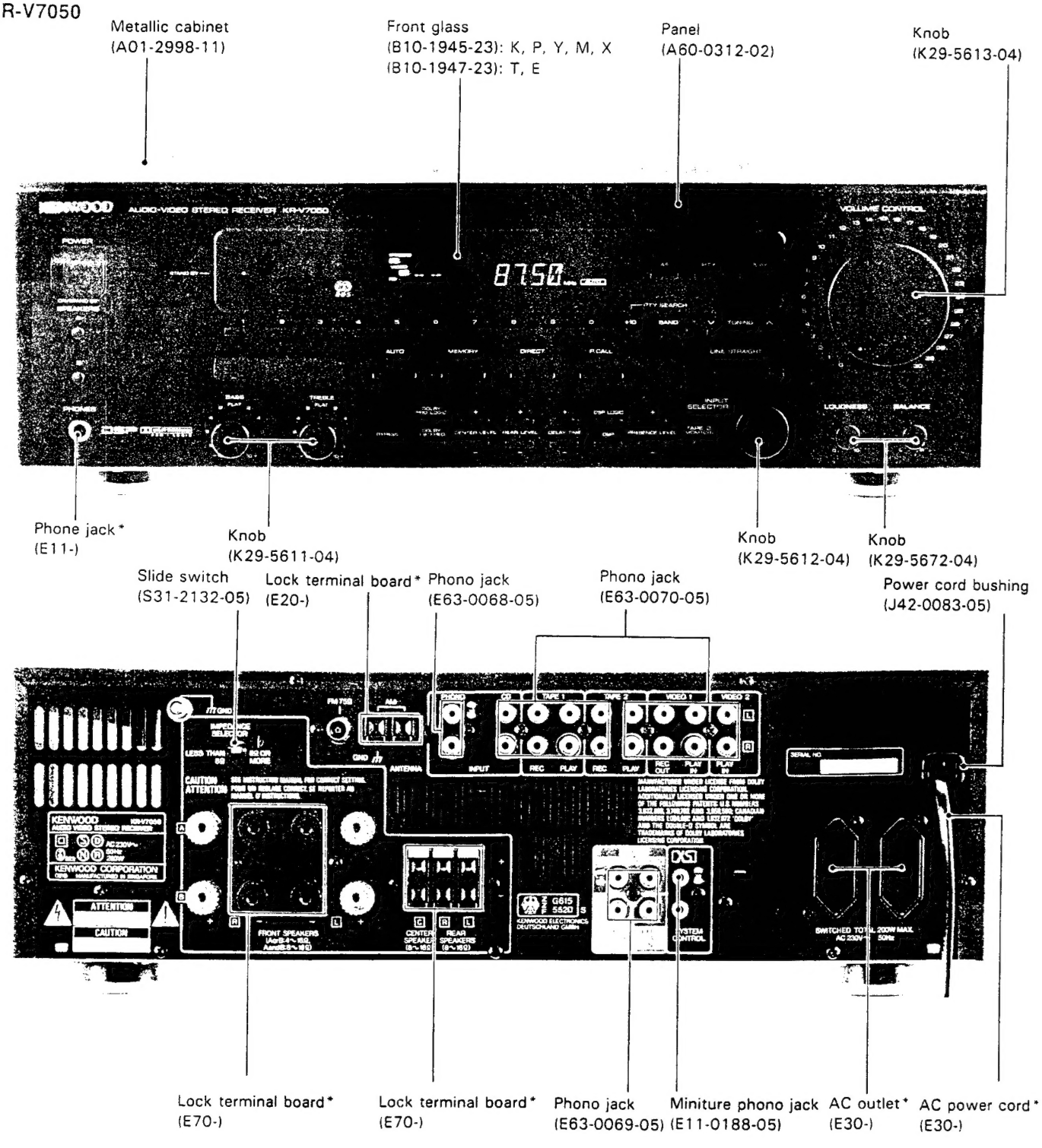
KR-V7050



*Refer to parts list on page 83.

FUNCTION

	KR-V6050			KR-V7050	
	K,P,M,Y,X	E	T	K,P,M,Y,X	E,T
PRO LOGIC/3 STEREO	O		O	O	O
DSP/DSP LOGIC				O	O
RDS (AF, PTY, DISPLAY)		O	O		O
Large SP Terminal		O			O
MUTE (Remote control unit)		O		O	O

O: There is the funtction

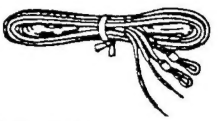
[SPEAKER IMPEDANCE SELECTOR and SURROUND OUTPUT]

KR-V6050: When the IMPEDANCE SELCTOR is in ▭ position, sound is not output from the center and rear speakers.

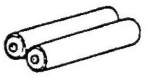
KR-V7050: When the IMPEDANCE SELECTOR is in ▭ or ▭ position, sound is output from the center and rear speakers.

Accessories

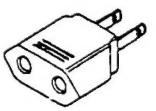
FM indoor antenna 1
(T90-0175-05)



Batteries
("R03" or "AAA") 2

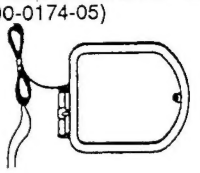


AC plug adaptor 1
(E30-0115-05)

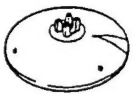


(Except for some areas)

AM loop antenna 1
(T90-0174-05)

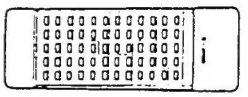


Loop antenna holder 1
(J19-2815-04)



Remote control unit 1

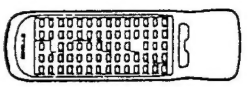
KR-V6050



A70-0925-05 KPYMXT
A70-0926-05 E
BATTERY COVER
A09-0106-08

Remote control unit 1

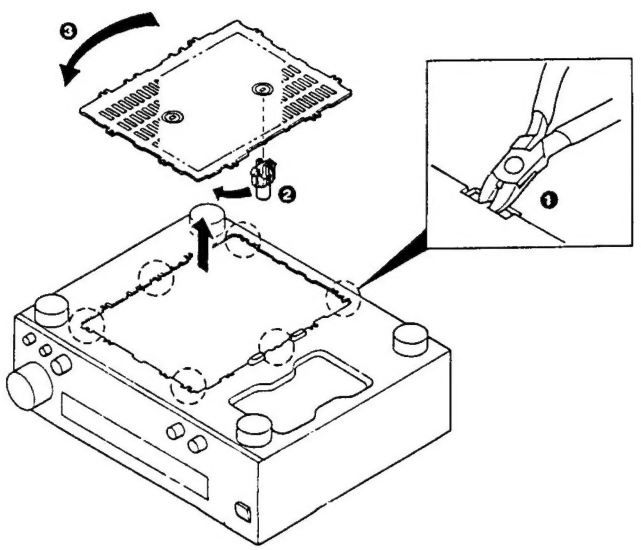
KR-V7050



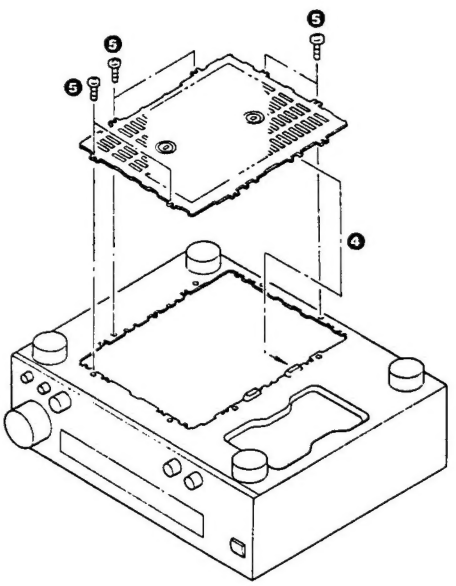
X94-1010-91 KPYMX
X94-1011-11 TE
BATTERY COVER
A09-0126-03

Removing the chassis for repair.

1. Cut the 6 places with a pair of nippers. ❶.
2. Move the unit holder from the current position to the open mounting position. ❷.
3. Rotate the lid, which was cut off, by 180° degrees. ❸.



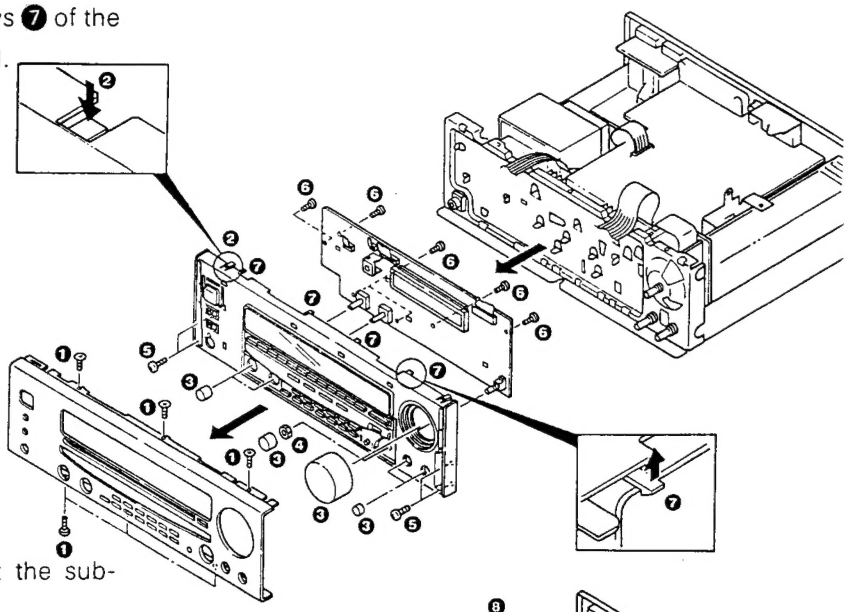
4. Insert the lids in the 2 places of the chassis ❹, and mount them with the 6 screws (3 × 6) ❺.



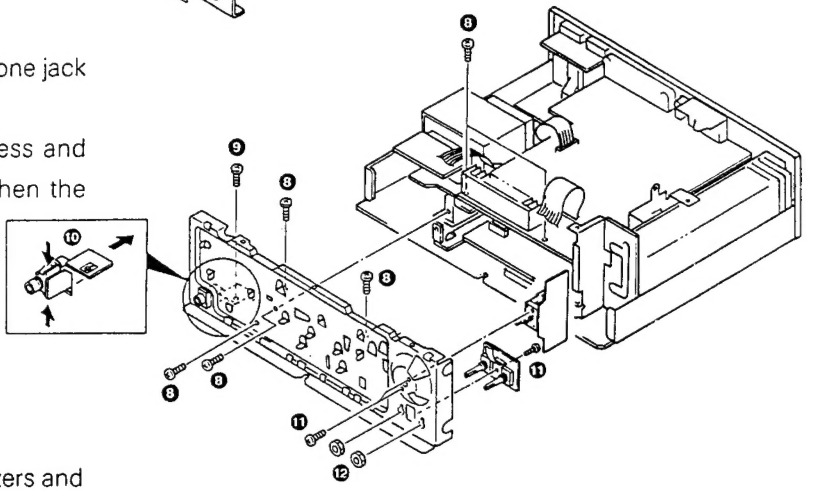
KR-V6050/7050

DISASSEMBLY FOR REPAIR

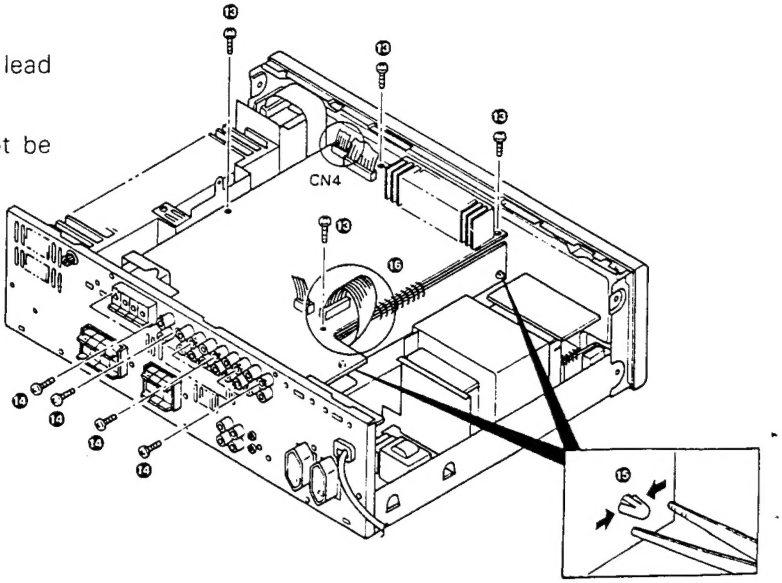
1. Remove the 6 screws ❶, press the 2 claws ❷ of the sub-panel, and remove the front panel.
2. Remove the 6 knobs ❸ and the nut ❹.
3. Remove the 4 screws ❺ and remove the sub-panel together with the circuit board.
4. Remove the 6 screws ❻, pull the 14 claws ❼ of the sub-panel, and remove the circuit board.



5. Remove the 6 screws ❽, and pull out the sub-chassis.
6. Remove the screw ❾, and disconnect the phone jack by pressing the claw ❿.
7. The volume control (X13) (D/6), the loudness and the balance (X13) (E/3) can be removed when the 2 screws ⓫ and the nut ⓬ are removed.



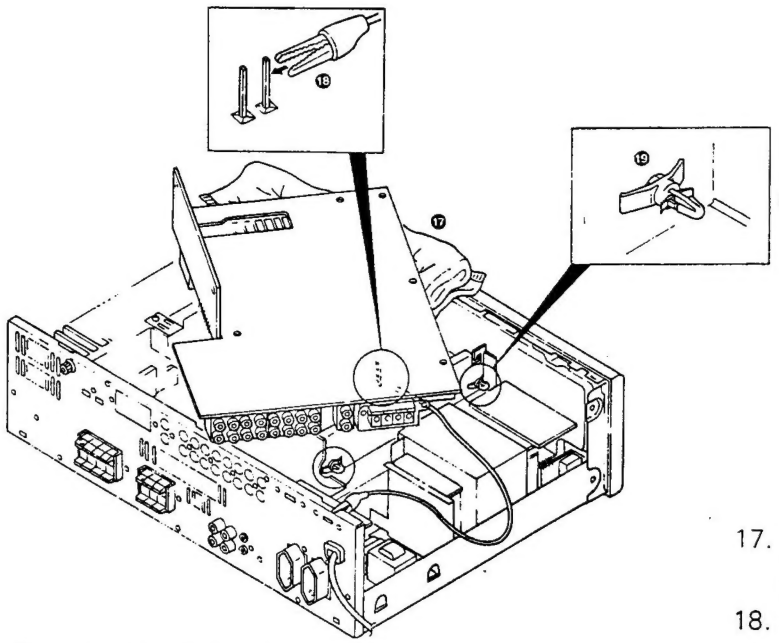
8. Remove the 4 screws ⓭.
9. Remove the 7 screws ⓮.
10. Hold the extremity of the 2 clamps with tweezers and the like, and remove the circuit board ⓯.
11. In the case of the E. T type, remove the parallel lead wires of CN4.
    *When assembling, take care for the cord not be caught between the two circuit boards. ⓰.



DISASSEMBLY FOR REPAIR

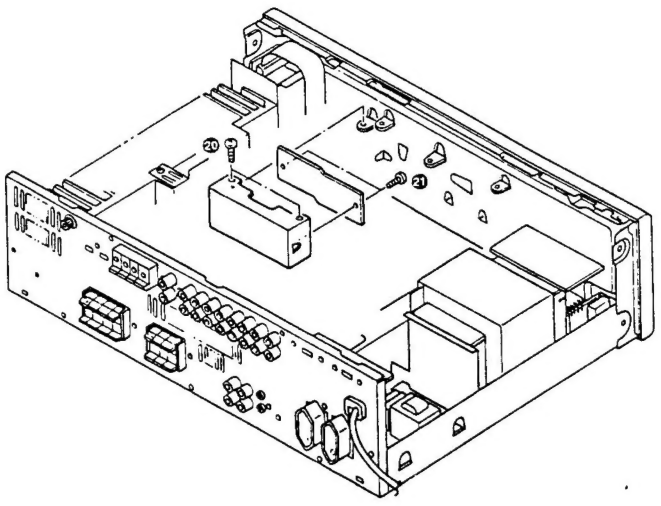
After removing from <X14> PCB body.

12. Turn the circuit board as a whole upside-down, and lay a piece of cloth between the circuit board and the chassis. ⑰.
13. When checking the tuner unit of X14, make sure of connecting the GND (TP17) of the tuner unit with the GND of the chassis with an alligator clip and the like. ⑱.
    * When assembling, position the clamps parallel to the chassis. ⑲.

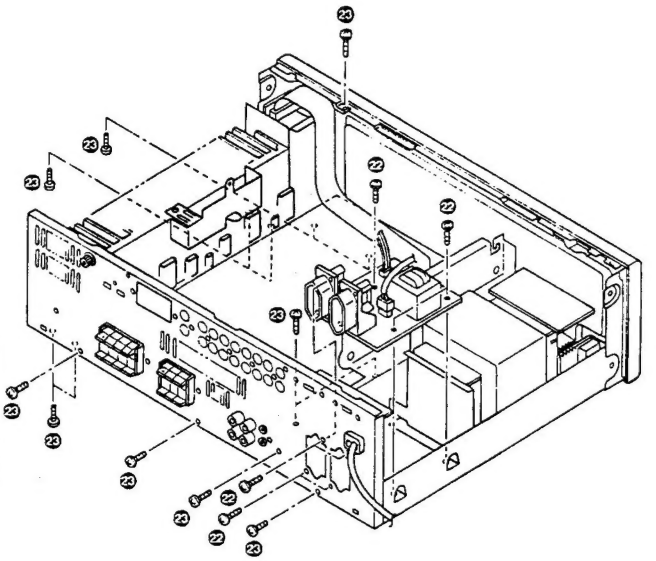


Removing the RDS unit.

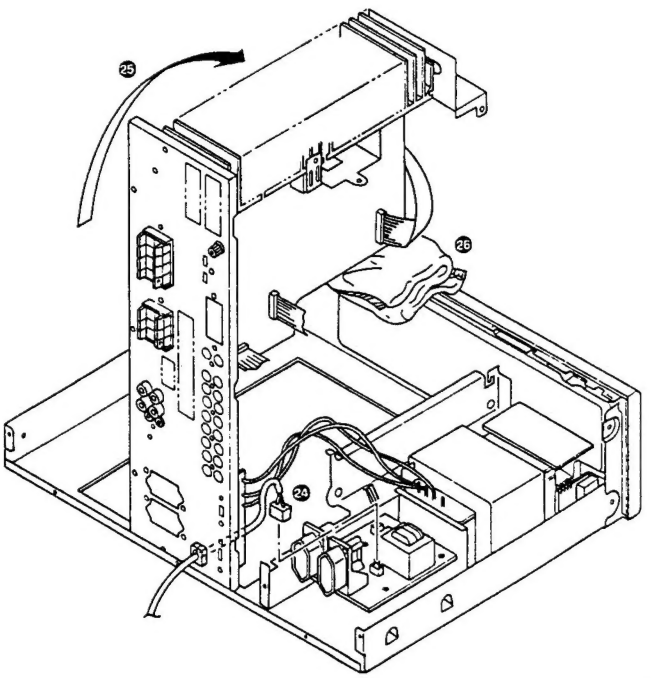
14. Remove the 2 screws ⑳, and then remove the screws ㉑ to remove the circuit board.



15. Remove the 7 screws ㉒, and let the circuit board get afloat.
16. Moreover, remove the 15 screws ㉓.

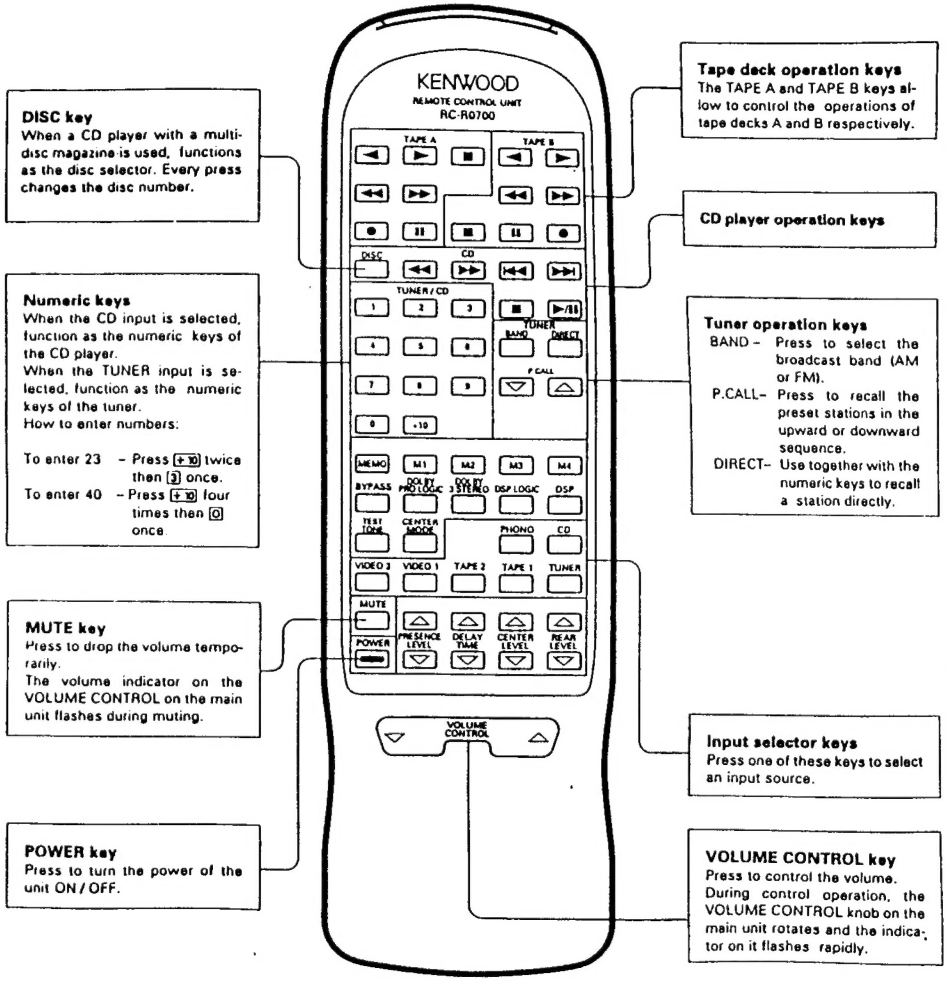


17. Undo the connector (CN4) ㉔ of the circuit boards (X13) (B/6).
18. Put up the main circuit board sideways. ㉕.
19. Lay a piece of cloth between the main board and the chassis. ㉖.



Remote control unit: KR-V7050 (K, P, M, Y, X Type)

■ Basic operation keys



DISC key
When a CD player with a multi-disc magazine is used, functions as the disc selector. Every press changes the disc number.

Numeric keys
When the CD input is selected, function as the numeric keys of the CD player.
When the TUNER input is selected, function as the numeric keys of the tuner.
How to enter numbers:

To enter 23 – Press [+10] twice then [3] once.
To enter 40 – Press [+10] four times then [0] once.

MUTE key
Press to drop the volume temporarily.
The volume indicator on the VOLUME CONTROL on the main unit flashes during muting.

POWER key
Press to turn the power of the unit ON / OFF.

Tape deck operation keys
The TAPE A and TAPE B keys allow to control the operations of tape decks A and B respectively.

CD player operation keys

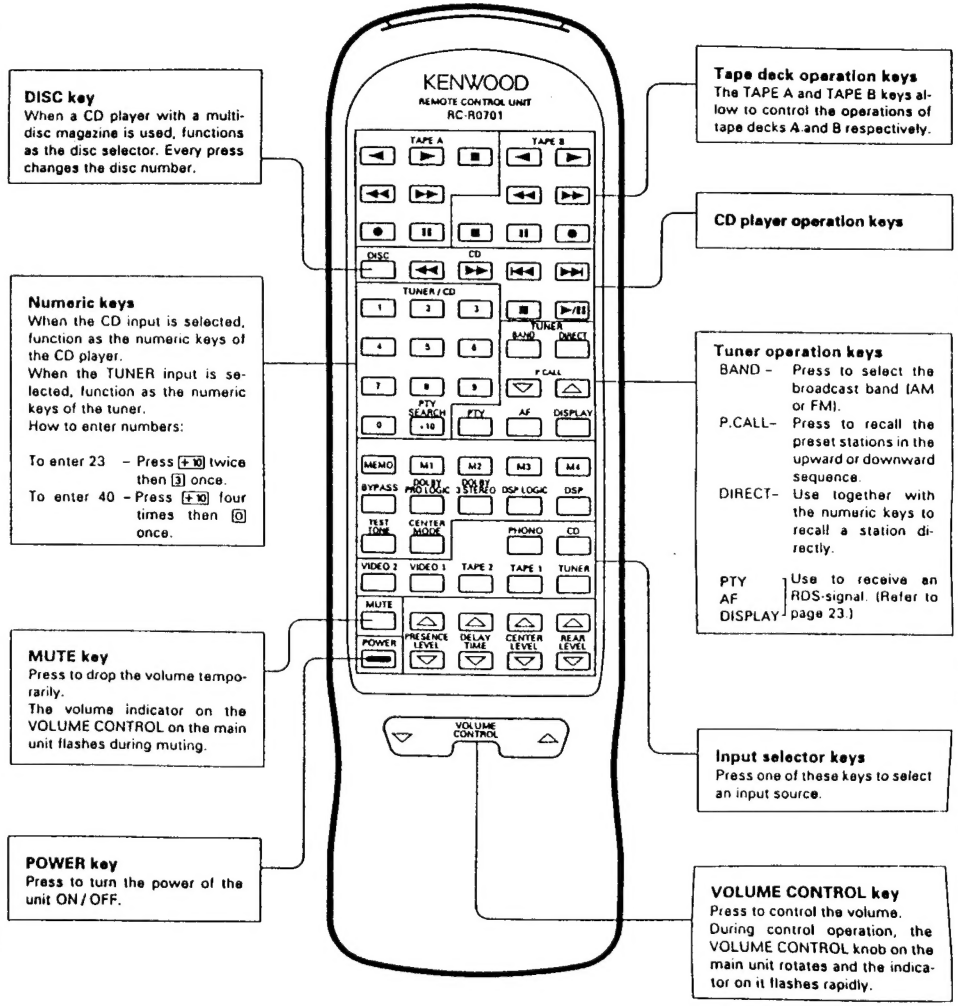
Tuner operation keys
BAND – Press to select the broadcast band (AM or FM).
P.CALL– Press to recall the preset stations in the upward or downward sequence.
DIRECT– Use together with the numeric keys to recall a station directly.

Input selector keys
Press one of these keys to select an input source.

VOLUME CONTROL key
Press to control the volume.
During control operation, the VOLUME CONTROL knob on the main unit rotates and the indicator on it flashes rapidly.

Remote control unit: KR-V7050 (E, T Type)

■ Basic operation keys



DISC key
When a CD player with a multi-disc magazine is used, functions as the disc selector. Every press changes the disc number.

Numeric keys
When the CD input is selected, function as the numeric keys of the CD player.
When the TUNER input is selected, function as the numeric keys of the tuner.
How to enter numbers:

To enter 23 – Press [+10] twice then [3] once.
To enter 40 – Press [+10] four times then [0] once.

MUTE key
Press to drop the volume temporarily.
The volume indicator on the VOLUME CONTROL on the main unit flashes during muting.

POWER key
Press to turn the power of the unit ON / OFF.

Tape deck operation keys
The TAPE A and TAPE B keys allow to control the operations of tape decks A and B respectively.

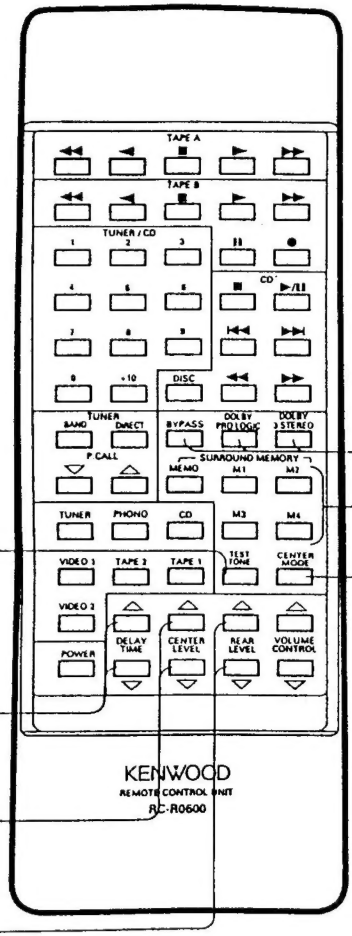
CD player operation keys

Tuner operation keys
BAND – Press to select the broadcast band (AM or FM).
P.CALL– Press to recall the preset stations in the upward or downward sequence.
DIRECT– Use together with the numeric keys to recall a station directly.
PTY, AF, DISPLAY – Use to receive an RDS-signal. (Refer to page 23.)

Input selector keys
Press one of these keys to select an input source.

VOLUME CONTROL key
Press to control the volume.
During control operation, the VOLUME CONTROL knob on the main unit rotates and the indicator on it flashes rapidly.

Remote control unit: KR-V6050 (K, P, M, Y, X, T, Type)



TEST TONE keys
Sets the test tone to ON/OFF when DOLBY PRO LOGIC or DOLBY 3 STEREO mode has been selected.

DELAY TIME key
Press to adjust the delay time.

CENTER LEVEL key
Press to adjust the volume of the center speaker.

REAR LEVEL key
Press to adjust the volume of the rear speakers.

DOLBY PRO LOGIC key
Press to initiate the Dolby Pro Logic mode.

DOLBY 3 STEREO key
Press to initiate the DOLBY 3 Stereo mode.

The keys above are used to switch the sound field modes.

BYPASS key
Press to release the presence modes.

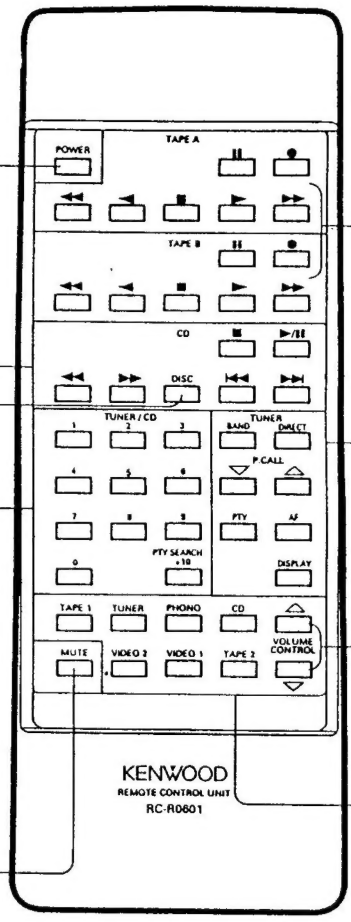
SURROUND keys

MEMO key
Press to store the current presence mode in memory.

M1 ~ M4 keys
Press to recall a presence mode from the memory.

CENTER MODE key
Press to adjust the center mode in the Pro Logic , DOLBY 3 STEREO or DSP Logic mode.

Remote control unit: KR-V6050 (E, T Type)



POWER key
Press to turn the power of the unit ON / OFF.

CD player operation keys

DISC key
When a CD player with a multi-disc magazine is used, functions as the disc selector. Every press changes the disc number.

Numeric keys
When the CD input is selected, function as the numeric keys of the CD player.
When the TUNER input is selected, function as the numeric keys of the tuner.
How to enter numbers:

To enter 23 – Press [+10] twice then [3] once.
To enter 40 – Press [+10] four times then [0] once.

MUTE key
Press to drop the volume temporarily.
The volume indicator on the VOLUME CONTROL on the main unit flashes during muting.

Tape deck operation keys
The TAPE A and TAPE B keys allow to control the operations of tape decks A and B respectively.

Tuner operation keys
BAND – Press to select the broadcast band (AM or FM).
P.CALL– Press to recall the preset stations in the upward or downward sequence.
DIRECT– Use together with the numeric keys to recall a station directly.

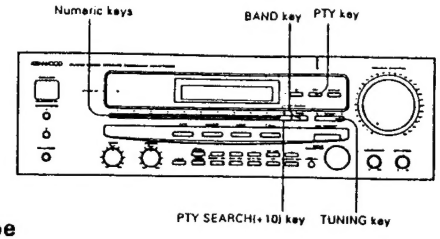
PTY, AF, DISPLAY – Use to receive an RDS-signal. (Refer to page 22)

VOLUME CONTROL key
Press to control the volume.
During control operation, the VOLUME CONTROL knob on the main unit rotates and the indicator on it flashes rapidly.

Input selector keys
Press one of these keys to select an input source.

REMOTE CONTROL OPERATION

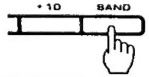
Refer to page 23 for a description of the RDS feature.

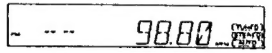


■ Searching for a desired program type

<PTY (Program Type Identification) Search>
By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.

1 Set the broadcast band to FM.



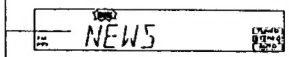


2 Select the search mode.

Press the PTY key.

When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available or if the station is not an RDS station, "NONE" is displayed.

Lights.

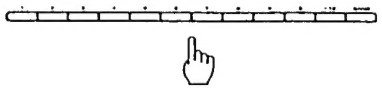


- Perform step 3 within 5 seconds after the program type is show on the display.

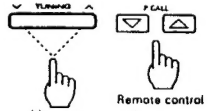
3 Select the desired program type.

Select while "PTY" is lit.

Ⓐ Use the numeric keys to directly select one of the ten program types numbered 1 to 0.



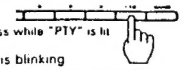
Ⓑ Press the TUNING (P.CALL) key to sequentially select from the fifteen available program types. Release the key when the desired program type is displayed.



Ⓑ	Ⓐ	Program Type Name	Display
DOWN	1	Pop Music	POP M
	2	Rock Music	ROCK M
	3	* M.O.R. Music	M.O.R. M
	4	Light Classical	LIGHT M
	5	Serious Classical	CLASSICS
	6	Other Music	OTHER M
	7	News	NEWS
	8	Current Affairs	AFFAIRS
	9	Information	INFO
	0	Sport	SPORT
	—	Education	EDUCATE
	—	Drama	DRAMA
	—	Culture	CULTURE
	—	Science	SCIENCE
UP	—	Varied	VARIED

* M.O.R. Music (Middle of the Road Music)

4 Start the search.



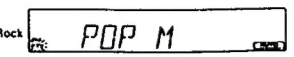
Press while "PTY" is lit.

- No sound is heard while "PTY" is blinking.
- If a program of the desired type cannot be found, "NO PROG" is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the program type name display changes temporarily to the frequency display and then to the station name display.

Display while the tuner is searching.

Program type name display

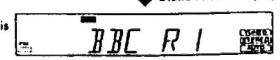
When searching for a Rock Music broadcast.



blinks

Station name display

When a station is received.

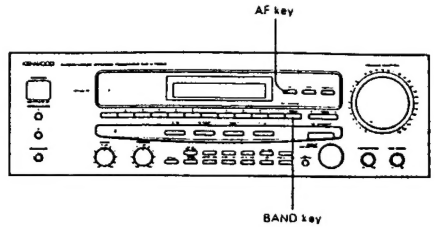


Goes out

To change to a different program type:

- Repeat steps 2 ~ 3.

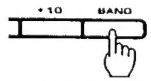
Refer to page 23 for a description of the RDS feature.

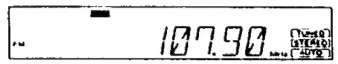


■ Searching for the best frequency

<AF (Alternative Frequencies) Search>
If more than one FM station is broadcasting the same program, this function will automatically select the station offering the strongest signal or the least interference. (The AF feature will not function if the RDS indicator is not lit.)

1 Set the broadcast band to FM.





2 Receive an RDS broadcast station.

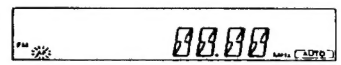
Check that the indicator is lit.

- Tune in the desired station and verify that the RDS indicator lights.
- After a short time, the "AF" indicator lights.
  After verifying that the "AF" indicator is lit, proceed to the next step.

3 Select the search mode.

Press the AF key

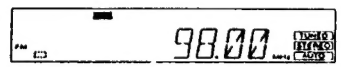
Display while the tune is searching.



blinks.

The frequency changes continuously.

When a station is received.



Goes out.

After about several seconds

Station name display

- Scanning (station searching) starts.
- No sound is heard while searching is being carried out.
- When a station is found, the "AF" indicator goes out.
- After several seconds, the station name is displayed.

AF (Alternative Frequencies) Feature

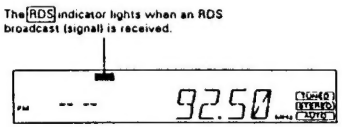
- With some stations, it may take some time for the "AF" indicator to light.
- To obtain the best reception conditions, we recommend waiting a few minutes after the "AF" indicator lights before pressing the AF key.
- It is useful to use the number keys to preset (memorize) stations received with this AF function. (See page 21.)
- The selected frequency may vary depending on the signal conditions.
- There are some RDS stations which do not support this AF function. For such stations, the "AF" indicator does not light.

RDS (Radio Data System) : E, T Type only

RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.

This unit is equipped with the following functions utilizing RDS data:

(In some areas, some functions cannot be activated and some function names are differ as follows.)



PTY (Program Type Identification) Search: (See page 24)
The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

AF (Alternative Frequencies) Search: (See page 25)
When a weak signal is received, the tuner automatically searches for alternative frequencies broadcasting the same program and selects the best signal.

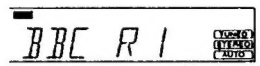
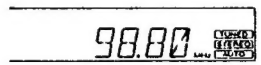
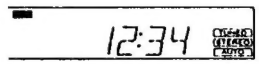
PS (Program Service Name) Display: (refer to the table below.)
When an RDS broadcast is received, the station name is automatically displayed.

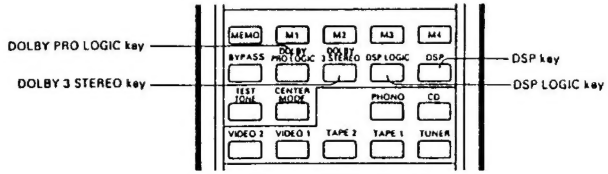
CT (Clock Time) Display: (refer to the table below.)
Some RDS stations transmit clock data along with the broadcast signal. When the CT display is selected with the DISPLAY key, the hour and minute are displayed.

DISPLAY key

Pressing the DISPLAY key changes the display contents. The display returns to the original display after about 5 seconds.

Display mode priority ranking
When an RDS broadcast is received: ① → ② • ③

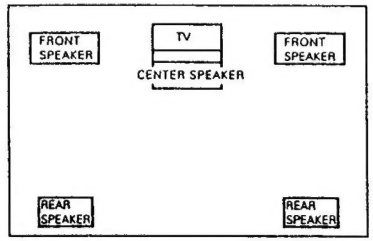
①PS (Program Service Name) Display: When an RDS broadcast is received, the station name is automatically displayed. If no PS data is transmitted, the display changes to the ② Frequency display.	
②Frequency Display: The frequency of the current station is displayed.	
③CT (Clock Time) Display: When an RDS broadcast is received, the hour and minute are shown on the display. If no clock data is available, the clock time is not displayed and the program service name is displayed.	



[Example KR-V7050]

■ Speaker positioning

Standard layout

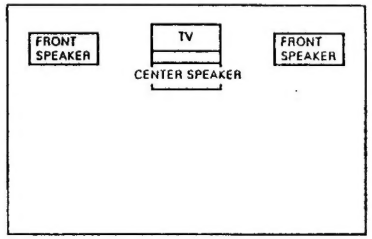


① Dolby PRO LOGIC mode (without KR-V6050 E type)
Set the center mode according to the size of the center speaker.

NORMAL : When the center speaker size is small.
WIDE BAND : When the center speaker size is large or medium.

② DSP LOGIC mode (KR-V7050 only)
Set the center mode to "4 CH MODE" and select the desired presence mode.

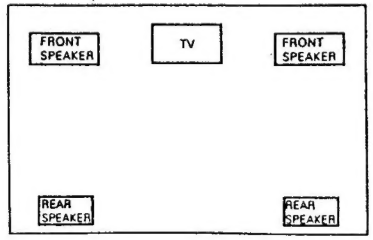
When no rear (surround) speakers are used



Dolby 3 STEREO mode (without KR-V6050 E type)
Set the center mode according to the center speaker size.

NORMAL : when using a small center speaker.
WIDE BAND : when using a medium-sized or larger center speaker.

When no center speaker is used



① Dolby PRO LOGIC mode (without KR-V6050 E type)
Set the center mode to PHANTOM.

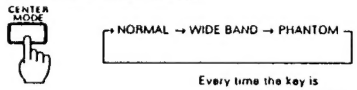
② DSP mode (KR-V7050 only)
Select the desired presence mode.

③ DSP LOGIC mode (KR-V7050 only)
Set the center mode to "3 CH MODE" and select the desired presence mode.

■ Dolby PRO LOGIC field adjustment

1 Set the Dolby PRO LOGIC mode.

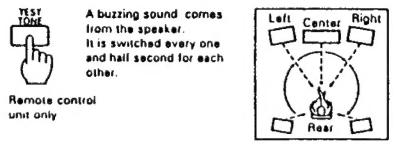
2 Select the center mode.



- Refer to column "Center mode" below.

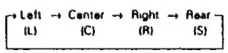
3 Adjust the volume balance.

① **Press the TEST TONE key.**

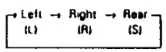


- Press at the listening position.

In NORMAL or WIDE BAND mode:



In PHANTOM mode:

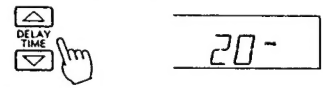


② **Adjust the volume balance.**

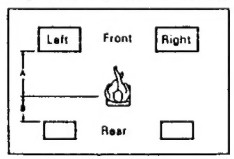
- Adjust so that the test tone volumes are the same on all speakers.
- The level being adjusted is displayed.
- The center level cannot be adjusted in the PHANTOM mode.

4 Stop generating the test tone.

5 Set the delay time.



- Calculate the proper delay time for Dolby Surround by referring to the illustration below.
- The delay time can be adjusted in the range from 16 to 29 ms.
- When the DELAY TIME key is pressed a delay time appears on the display. It varies every time the key is pressed.
  16ms ↔ 20ms ↔ 23ms ↔ 26ms ↔ 29ms
- Once a delay time is set, it is automatically held in memory so the same delay time is displayed whenever Dolby Surround is switched ON later.



Delay time (ms) = 20 ms + 3 ms (A – B)
A : Distance of front speaker (m)
B : Distance of rear speaker (m)

Center mode

Select one of the following center modes according to the type of the presence speakers in your system.

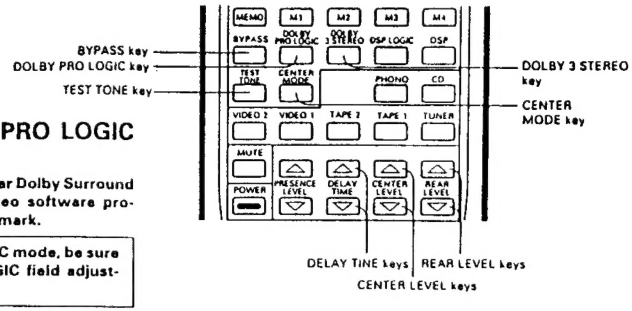
NORMAL : Use this mode with a center speaker of a compact size.
WIDE BAND : Use this mode wit a center speaker of a medium or larger size.
- If you cannot identify whether your center speaker is of the medium or compact size, try both the NORMAL and WIDE BAND mode and use the one that can provide better sound positioning.

PHANTOM : Use this mode when the center speaker is not used.
- Even without the center speaker, the signal is processed in a simulated manner to ensure proper center image positioning and provide the enjoyment of Dolby Surround.

■ Operation of Dolby PRO LOGIC playback

This function allows to enjoy a similar Dolby Surround effect to movie theaters from video software programs carrying the DOLBY SURROUND mark.

Before using the Dolby PRO LOGIC mode, be sure to perform the "Dolby PRO LOGIC field adjustment" procedure.



1 Set the Dolby PRO LOGIC mode.

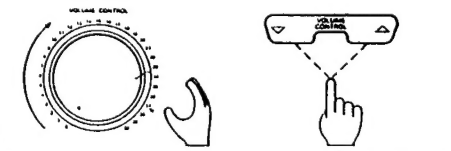
2 Select the center mode.

- Select the mode which has been set in step 2 of the "Dolby PRO LOGIC field adjustment" procedure. (Refer to page 26.)

Every time the key is pressed, the center mode is switched. → NORMAL → WIDE BAND → PHANTOM

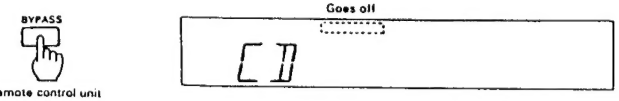
3 Play a software program encoded with Dolby Surround.

4 Adjust the volume and tone.



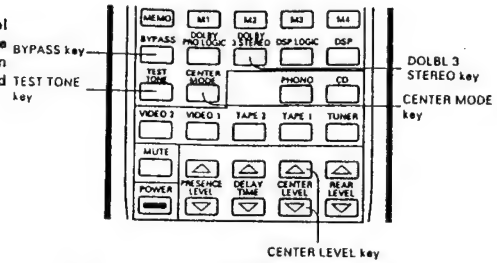
- When the level balance of center and rear speakers is not good, perform the "Dolby PRO LOGIC field adjustment" procedure again.

To return to normal stereo playback.



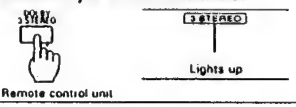
Dolby 3 STEREO Mode

The Dolby 3 STEREO provides a active center channel to produce a better, stable center image. This mode can be used when listening to stereo video program and music or when surround listening or surround system set-up not possible.



■ Dolby 3 STEREO adjustment

1 Set the Dolby 3 STEREO mode.



2 Select the center mode.

Every time the key is pressed, the center mode is switched.

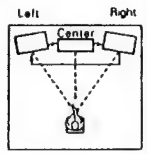
NORMAL ↔ WIDE BAND

- Set the center mode to NORMAL if using a small center speaker, or set to WIDE BAND if using a medium-sized or larger speaker.

3 Adjust the center speaker volume.

① **Press the TEST TONE key.**

A buzzing sound comes from the speaker. It is switched every one and half second for each other.



- Press at the listening position.
- When at 3 stereo sound is produced in the sequence: LEFT → CENTER → RIGHT (REAR not available with 3 stereo mode.)

② **Adjust the volume.**

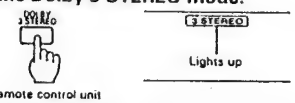
- And adjust so that the level of the center speaker is equal to that of the left and right speakers.
- The rear level adjustment is invalid.

4 Stop generating the test tone.

Press the key again.

■ Dolby 3 STEREO playback

1 Set the Dolby 3 STEREO mode.



2 Select the center mode.

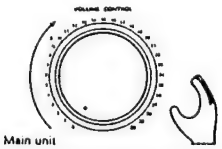
Every time the key is pressed, the center mode is switched.

NORMAL ↔ WIDE BAND

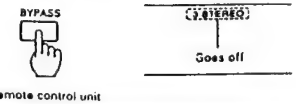
- Set the center mode to NORMAL if using a small center speaker, or set to WIDE BAND if using a medium-sized or larger speaker.

3 Play a stereo software program or a Dolby surround program.

4 Adjust the volume and tone.



To return to normal stereo playback.



DSP / DSP LOGIC Presence

The DSP (Digital Signal Processor) allows to reproduce the atmospheres of various sound fields. By applying additional adjustments, a custom presence effect of yourself can also be created.

① DSP presence modes..... ARENA, JAZZ CLUB, STADIUM, DISCOTHEQUE
② DSP Logic presence modes ... LARGE THEATER, SMALL THEATER

Satisfactory effect can be enjoyed by selecting one of the presence modes by referring to the table below. Additionally, the parameters shown in the table can also be adjusted according to your liking.

Presence level : Variable in the range from – 20 to 0 dB.
Delay time : Variable in the range from 3 to 50 ms.
Rear level : Variable in the range from – 30 to + 10 dB.
Center level : Variable in the range from – 30 to + 10 dB.

	Initial setting values			Variable setting values	
Presence mode	CHANNEL MODE	DELAY TIME	PRESENCE LEVEL	CENTER LEVEL	REAR LEVEL
ARENA	*	10 ms	– 12 dB	*	– 30 dB~ + 10 dB
JAZZ CLUB	*	16 ms	– 12 dB	*	– 30 dB~ + 10 dB
STADIUM	*	26 ms	– 8 dB	*	– 30 dB~ + 10 dB
DISCOTHEQUE	*	16 ms	– 8 dB	*	– 30 dB~ + 10 dB
LARGE THEATER	3ch	32 ms	– 8 dB	*	– 30 dB~ + 10 dB
	4ch	32 ms	– 8 dB	– 30 dB~ + 10 dB	– 30 dB~ + 10 dB
SMALL THEATER	3ch	16 ms	– 16 dB	*	– 30 dB~ + 10 dB
	4ch	16 ms	– 16 dB	– 30 dB~ + 10 dB	– 30 dB~ + 10 dB

ARENA..... A hall where high frequencies are reflected very well and reverberations are long.

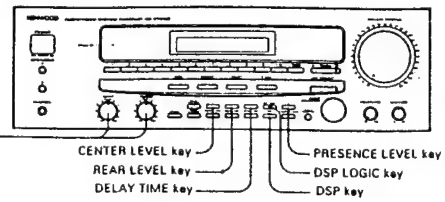
JAZZ CLUB ..... A live house of jazz where cymbals sounds well.

STADIUM ..... A stadium with reflections proper to PA speakers.

DISCOTHEQUE ..... A disco where medium-frequency range is enhanced by comfortable reverberations.

LARGE THEATER ..... Reproduces a surround sound proper to a large movie theater.

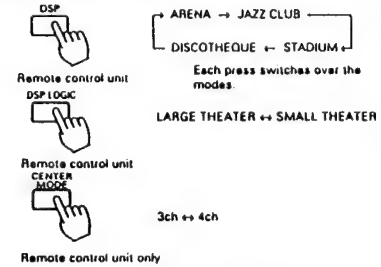
SMALL THEATER ..... Reproduces the sound field of a small movie theater or hall.



■ Creating a DSP sound field

1 Select the presence mode.

Main unit or Remote control unit



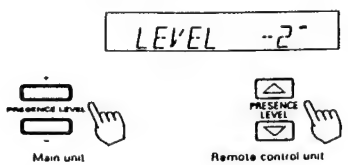
- Press the CENTER MODE key only in the DSP LOGIC mode.

2 Play the music source.

Now, a sufficient sound field effect of the presence mode can be obtained. However, you can make additional adjustments as described in the following.

- Even when the following presence parameters have been adjusted, they will return to the initial settings when the Dolby Surround mode or another presence mode is selected.

3 Adjust the presence level.



- Set in 2 dB steps within a range of – 20 to 0 dB.

4 Adjust the volume.

① **Adjust the center level.**

- Set within a range of – 30 to + 10 dB

② **Adjust the rear level.**

- Set within a range of – 30 to + 10 dB.

- Perfrom step ① only when the DSP LOGIC mode is set to "4 CH MODE".

5 Adjust the sound quality. Main unit only

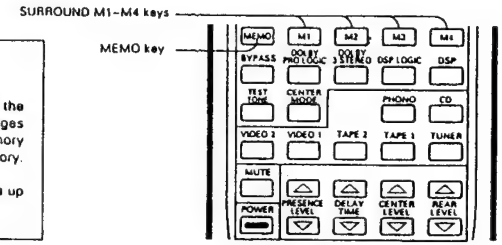
6 Set the delay time.

- The delay time can be adjusted within a range of 3 ms to 50 ms.

Surround information memory functions

For the enjoyment in Surround modes, it is required to set the levels of the channels, delay time, etc., as described on pages 29, 30, 31, 32, and 33. The Surround information memory function makes it possible to store such information in memory.

The Surround Information Memory function allows to store up to four sets of Surround information.



■ How to save Surround setup in memory Remote control unit only

1 Select or create the surround setup to be saved.

- BYPASS cannot be stored.

2 Press the MEMO key.

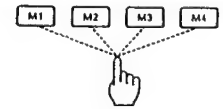
- Proceed to the step 3 while the display shown right is lighted.
- The unit enters storing stand by mode.

3 Press the M1 ~ M4 key.

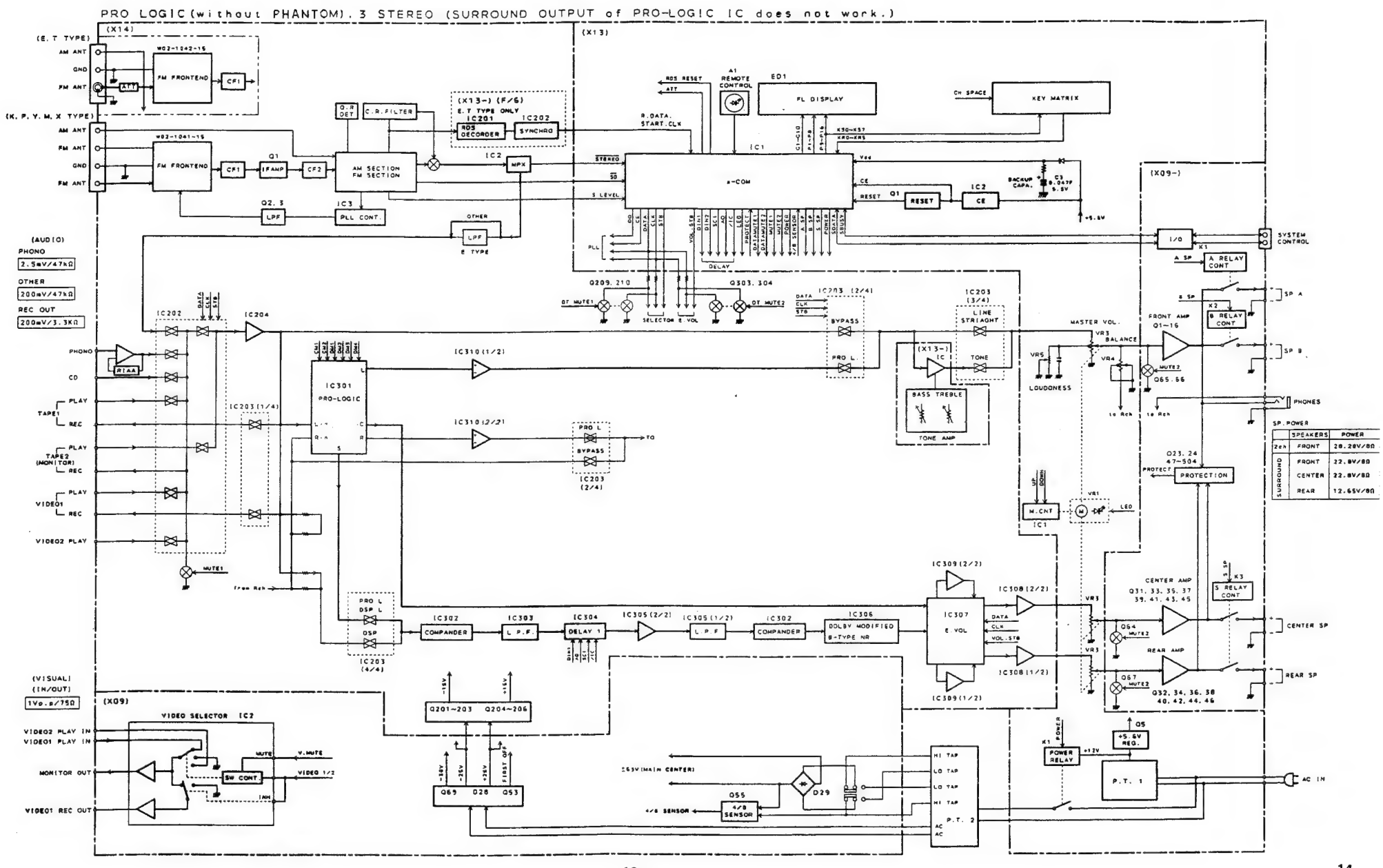
- Set to M1~M4.

■ How to recall a Surround setup Remote control unit only

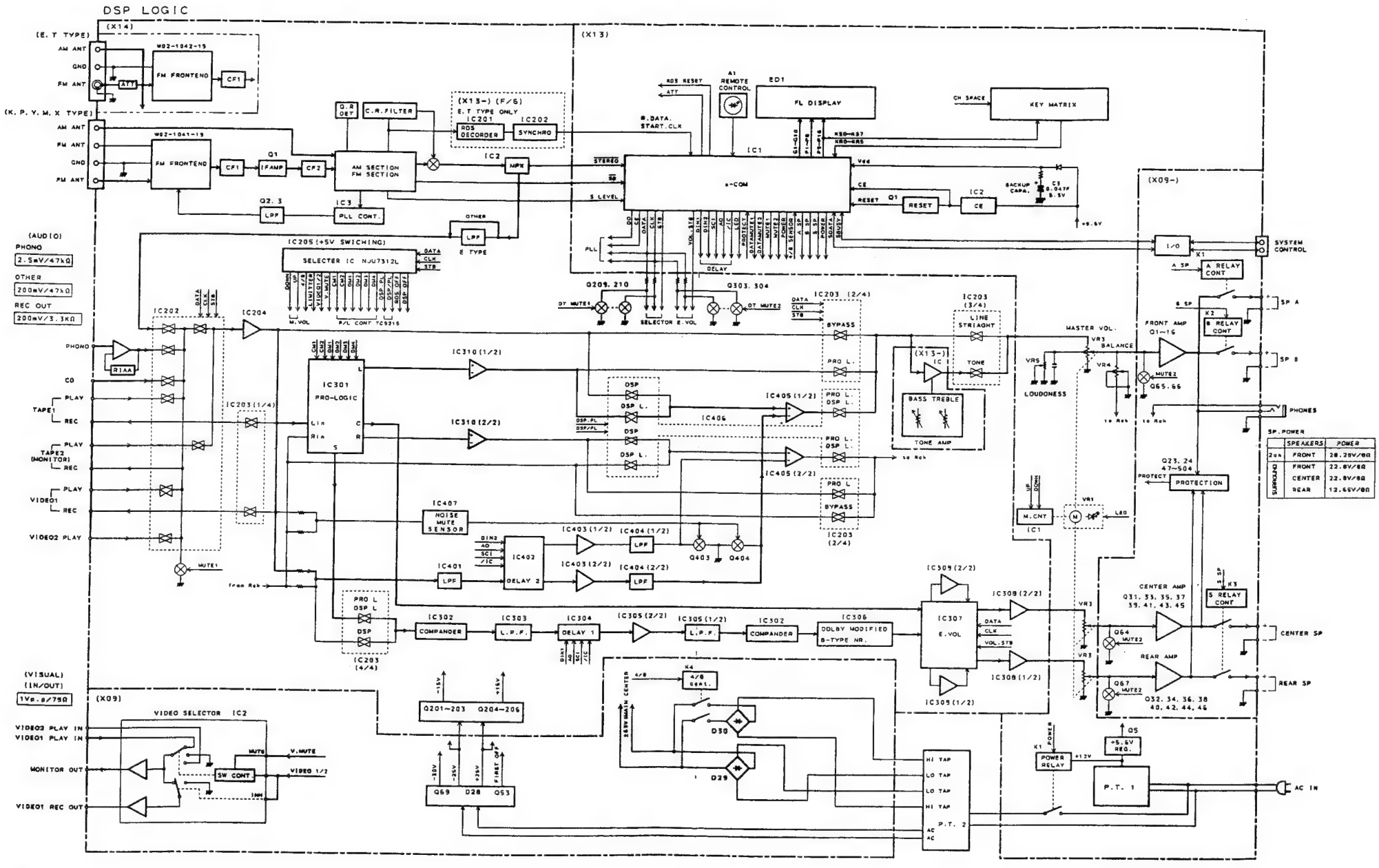
To recall a pattern from the Surround memory, Press one of the M1 to M4 keys to recall a pattern directly from the Surround memory.



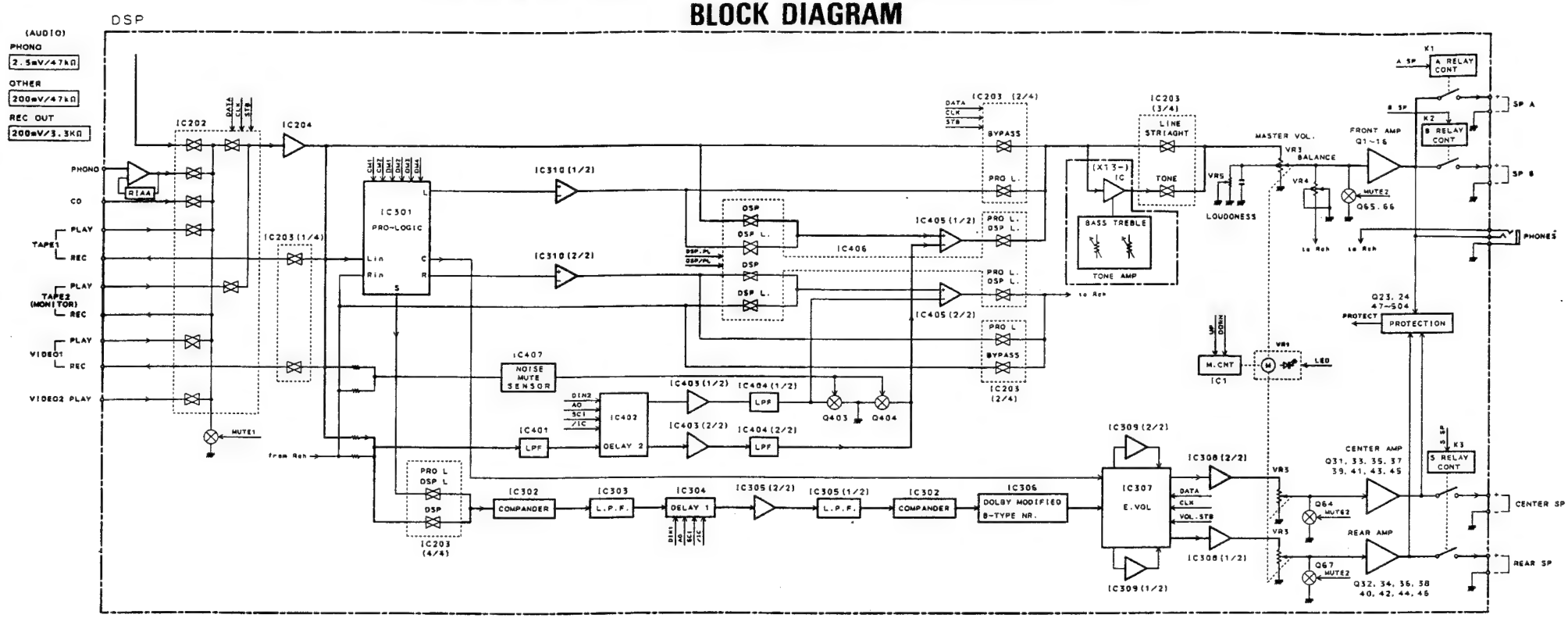
BLOCK DIAGRAM



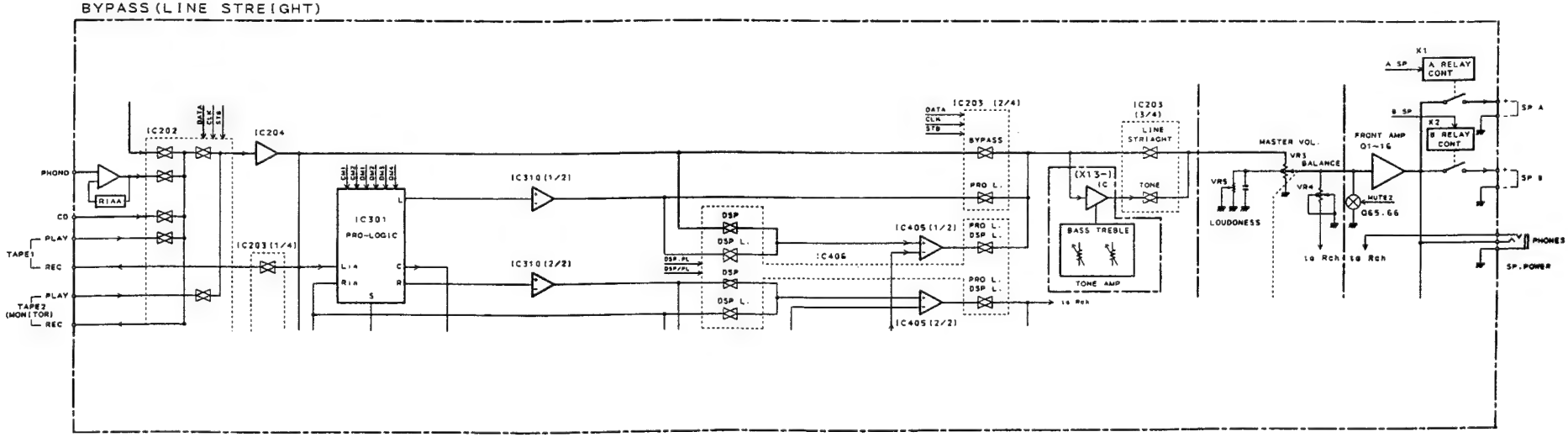
BLOCK DIAGRAM



BLOCK DIAGRAM



BYPASS (LINE STREIGHT)



17

CIRCUIT DESCRIPTION

1. Function description

Features

AMP

Seven-position selector: (CD, TUNER, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2/LD)
Six audio input terminals: (CD, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2/LD)
Three audio output terminals: (TAPE1, TAPE2, VIDEO1)
Two video output terminals: (VIDEO1, VIDEO2/LD)
One video output terminal: (VIDEO1)
LINE STRAIGHT
SURROUND mode.
DSP [KR-V7050]
(ARENA, JAZZ CLUB, STADIUM DISCOTIQUE)
DSP-LOGIC [KR-V7050]
(3ch LARGE THEATER, 3ch SMALL THEATER, 4ch LARGE THEATER, 4ch SMALL THEATER)
PRO-LOGIC, [KR-V6050 (without E TYPE)/V7050]
(NORMAL, WIDE, PHANTOM)
3-STEREO [KR-V6050 (without E TYPE)/V7050]
(NORMAL, WIDE)
Speaker A/B changeover.
Surround memory (M1 to M4). [Without KR-V6050 E type]
(Surround mode, center mode, delay time, center level, rear level, presence level)
TAPE 2 monitor.

TUNER

20ch random preset..
Tuning control by IF count.
Direct selection.
RDS function (E, T-TYPE only).

2. Conditions according to the destination and model

AMP

MODEL	DIODE SW 5	DIODE SW 4	Surround function
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (except E)	0	1	PRO-LOGIC, 3-STEREO
KR-V6050 (E only)	1	X	No surround

X: Don't Care

TUNER

Destination	DIODE SW 3	2	1	0	Band	Receiving Remarks	Channel Space	IF	RF	Note
K1	0	0	0	0	FM	87.5 MHz ~ 108.0 MHz	100 kHz	+10.7 MHz	50 kHz	
					AM	530 kHz ~ 1610 kHz	10 kHz	+450 kHz	10 kHz	
K2	0	0	1	0	FM	87.5 MHz ~ 108.0 MHz	100 kHz	+10.7 MHz	50 kHz	
					AM	530 kHz ~ 1700 kHz	10 kHz	+450 kHz	10 kHz	
E	0	1	0	0	FM	87.5 MHz ~ 108.0 MHz	50 kHz	+10.7 MHz	50 kHz	
					AM	531 kHz ~ 1602 kHz	9 kHz	+450 kHz	9 kHz	
E	1	1	0	0	FM	87.5 MHz ~ 108.0 MHz	50 kHz	+10.7 MHz	50 kHz	With RDS
					AM	531 kHz ~ 1602 kHz	9 kHz	+450 kHz	9 kHz	

[DIODE MATRIX: <X14> DIODE SW NO.]

μ-com	PIN NO.	55	56	57	58	59	60
PIN NO.	PIN NAME	KR5	KR4	KR3	KR2	KR1	KR0
61	KS7	Channel space	AM 1610/1700	RDS No/Yes	DSP. DOL/ DOL ONLY	SURROUND Yes/No	(X)
DUIDE SW NO.		2	1	3	4	5	0
<X13> DIODE Ref. No.		D32	D31	D33	D34	D35	—

CIRCUIT DESCRIPTION

- Diode SW 0 →
- Diode SW 1 → AM band range/K TYPE only
  0: AM NARROW
  1: AM WIDE
- Diode SW 2 → Channel base (Products bound for M: Changeover with switch)
  0: FM 100 kHz/step, AM 10 kHz/step
  1: FM 50 kHz/step, AM 9 kHz/step
- Diode SW 3 → With/without RDS/E TYPE only
  0: Without RDS
  1: With RDS
- Diode SW 4 → Surround mode
  0: DOLBY function & DSP function
  1: DOLBY function only
- Diode SW 5 → With/without surround
  0: With surround
  1: Without surround

3. Initial state

① POWER OFF

② AMP system

- Audio selector — TUNER
- Video system selector — VIDEO1
- Speaker A — ON
- Speaker B — OFF
- TAPE2 MONITOR — OFF
- LINE STRAIGHT — OFF

③ TUNER system

- Band — FM
- Frequency — Lower limit of FM (87,5 MHz)
- TUNING mode — AUTO TUNING (AUTO STEREO)
- P. CH indication — --ch

④ SURROUND system

- Mode — BYPASS (OFF)
- CENTER LEVEL — 0 dB
- REAR LEVEL — 0 dB
- PROLOGIC mode — NORMAL
- 3STEREO mode — NORMAL
- DSP mode — ARENA
- DSPLOGIC mode — SMALL THEATER
- DSPLOGIC channel mode — 3ch
- PRESENCE LEVEL:

DOLBY	PROLOGIC, 3STEREO	−20 dB
DSP	ARENA, JAZZ	−12 dB
	STADIUM, DISCO	−8 dB
DSPLOGIC	SMALL THEATER	−16 dB
	LARGE THEATER	−8 dB

- DELAY TIME:

DOLBY	PROLOGIC	20 ms
DSP	ARENA	10 ms
	JAZZ	16 ms
	STADIUM	26 ms
	DISCO	16 ms
DSPLOGIC	SMALL THEATER	16 ms
	LARGE THEATER	32 ms

⑤ Test frequency

	K1 TYPE	K2 TYPE	E TYPE
01ch	FM 98.00 MHz	FM 98.00 MHz	FM 98.00 MHz
02ch	FM 108.00 MHz	FM 108.00 MHz	FM 108.00 MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHZ	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
08ch	FM 98.50 MHz	FM 98.50 MHz	FM 98.50 MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10 MHz	FM 89.10 MHz	FM 89.10 MHz
11ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
12ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
13ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
14ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
15ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
16ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
17ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
18ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
19ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
20ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz

(Initial setting)

Insert the AC power cord plug in The electrical outlet while pushing the "POWER" key.

CIRCUIT DESCRIPTION

4. Test mode

Main unit test mode

1) Setting method
Turn the AC power ON while pushing the "TUNING DOWN" key.

2) Cancellation method
Turn the AC power OFF.

3) Contents

① Start of the main unit test mode
The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key. Three operations are carried out in this case.

- Automatic power ON
- All fluorescent character display tubes and LED light up
- Initialization of all states except POWER ON/OFF
The "all indications lit up" state is canceled by pushing any key of the main unit. The states changed during the test mode are initialized when the main unit test mode is canceled (AC power OFF).

② Automatic motor VR UP/DOWN (AMP)
The (16-second UP → 16-second DOWN → Stop) operation of the motor VR is carried out when the "TAPE 2" key is operated.
Therefore, "TAPE 2 MONITOR" can not be changed over during the main unit test mode.

③ MUTE signal output (AMP)
No control of selector MUTE (MUTE 1) is carried out.

④ Test mode operation of 0~9, +10 (TUNER)

a) When the +10 key is not operated, the channels 1 to 9 (keys 1 to 9), as well as the channel 10 (key 0) can be called.

b) When the key +10 is operated once, the channels 11 to 19 (keys 1 to 9) as well as the channel 20 (key 0), can be called.

c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".

⑤ Processing of keys available only in the remote controller

a) Processing related to the AMP: None

b) Processing related to the TUNER: None

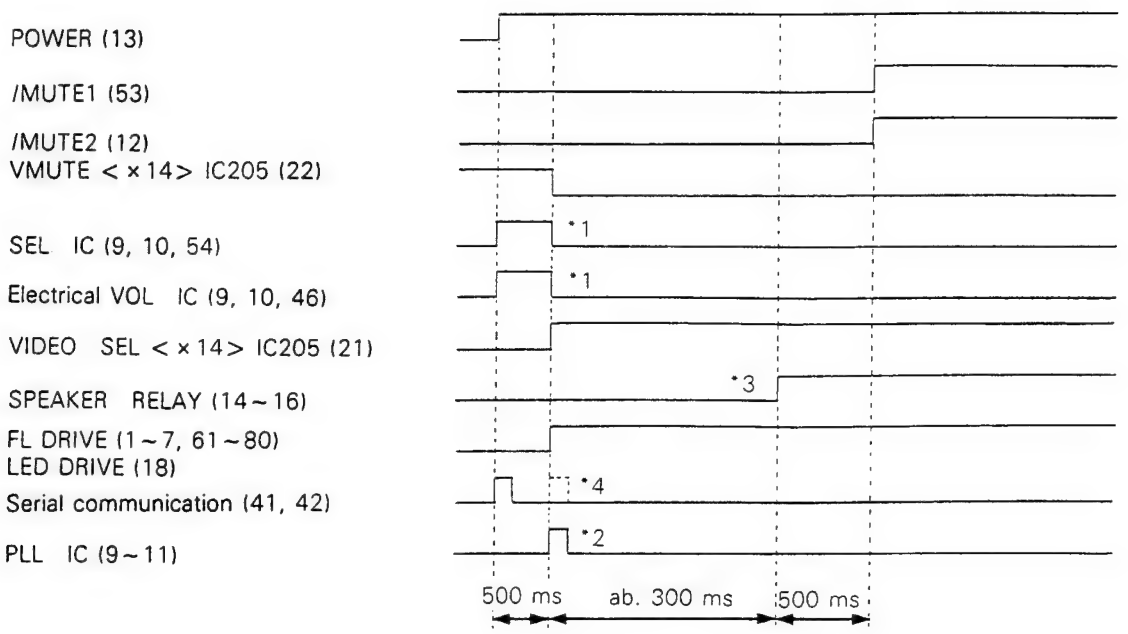
c) Processing related to the SURROUND (Depends on the SURROUND: MODE)
"P. CH CALL" key: Works in the same way as the "CENTER MODE" key.
"DIRECT" key: Works in the same way as the "TEST TONE" key.
Of course, the operations of "P. CH CALL" and "DIRECT" can not be carried out.

⑥ Cancellation of the main unit test mode
The test mode is canceled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

CIRCUIT DESCRIPTION

Timing Chart

① POWER ON



*1. Output of data to the selector IC and the electronic VOL. IC is continued during the time t1 to prevent unstable state of the IC. Moreover, resistors are connected without fail in series with the control lines of the selector IC and the electronic volume IC.

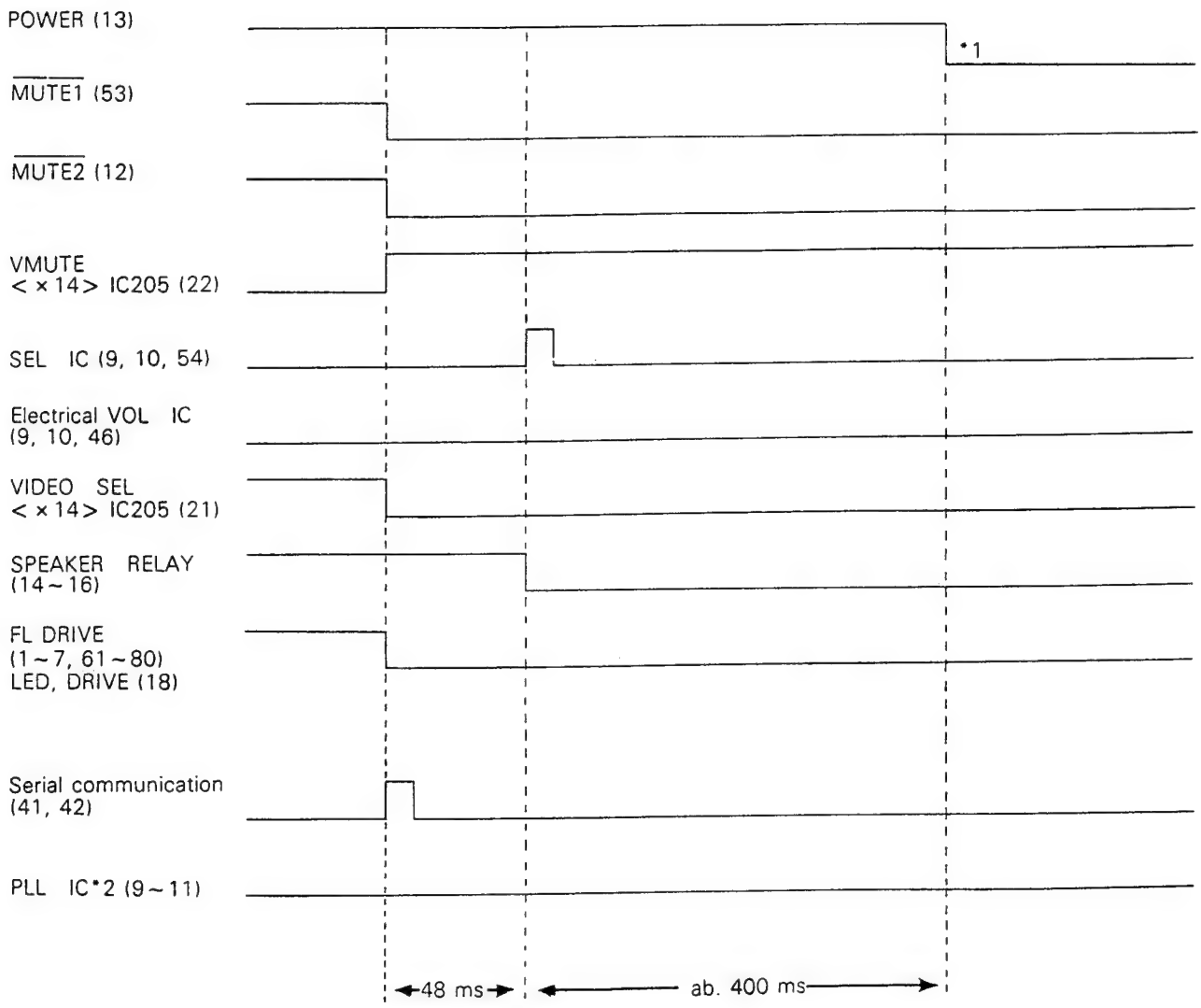
*2. This signal is outputted when the forcible MONO control signal of the TUNER is outputted from the port of the PLL IC (receiver).

*3. Protection detection is started immediately before connecting the SPEAKER RELAY.

*4. The SYSTEM ON code is outputted after the time t1 in the case of single item as well as system component AMP. and RECEIVER.

CIRCUIT DESCRIPTION

② POWER OFF

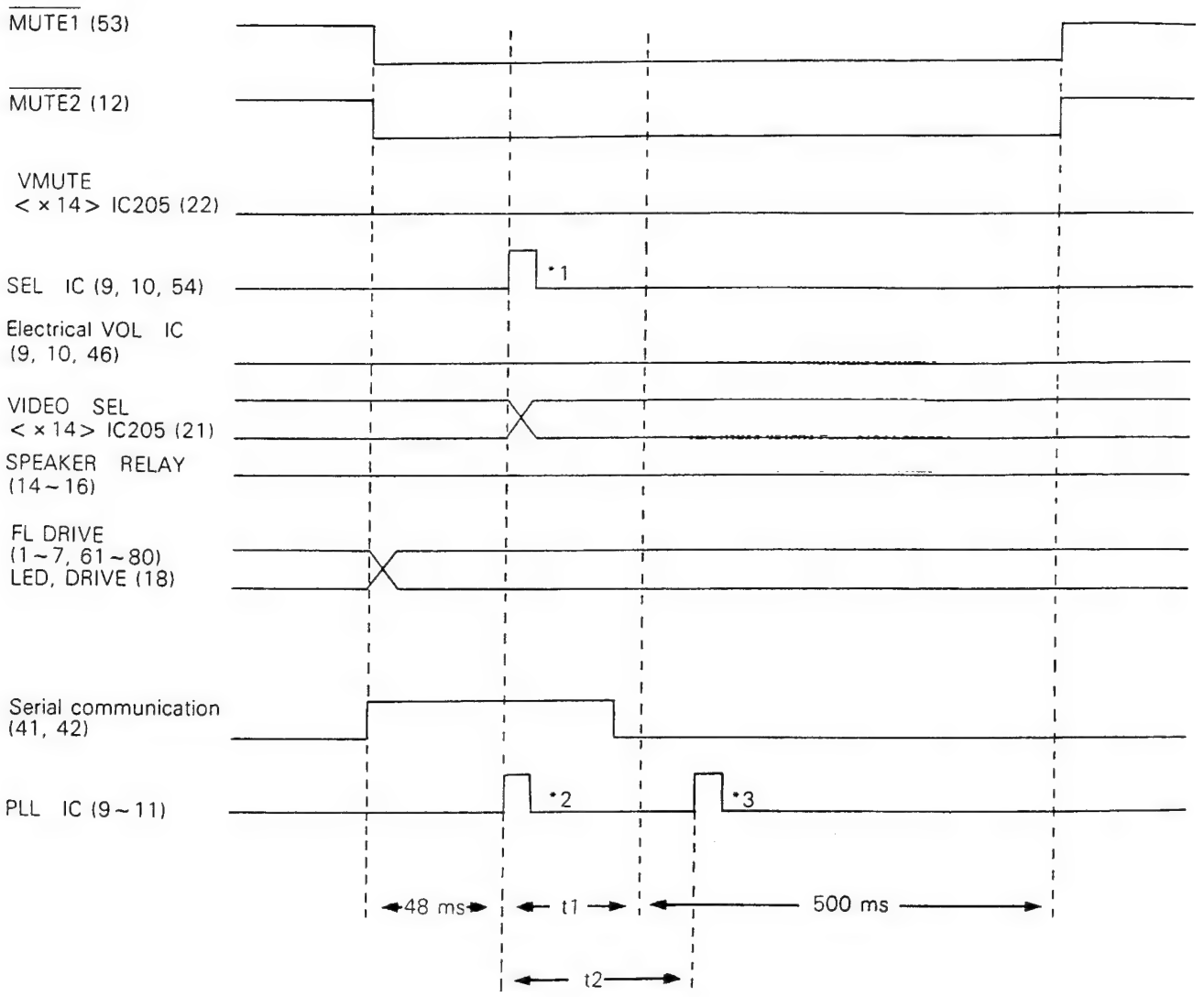


*1. The disconnection of the AC OUTLET is delayed to drop the mechanism of the DECK connected to the AC OUTLET (SWITCHED).

*2. This signal is outputted in the case of receiver.

CIRCUIT DESCRIPTION

③ Selector changeover



t1: Data transmission time to the selector IC, DSP IC, etc.

t2: 80 ms (+80 ms) IF COUNT time

*1. Pay special attention to the oscillation when switching. In particular, before switching the input selector, make sure of opening the REC OUT SW once.

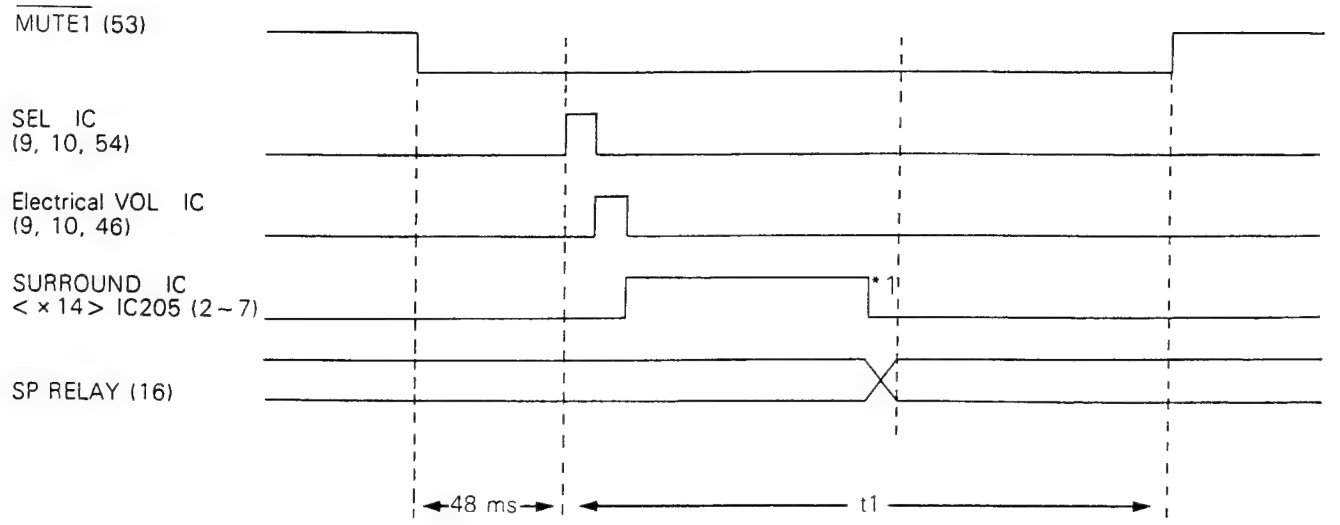
Since data before changeover are left in the RAM for DELAY when the surround is composed by using DSP IC and the like, data of the current surround mode are sent once again to the DSP IC and the like after clearing the RAM for DELAY.

*2. Receivers without TUNER MUTE set the lower frequency limit of AM in the PLL IC, except when the selector is set to TUNER.

*3. The IF count completion data is set with this timing when IF count is being carried out.

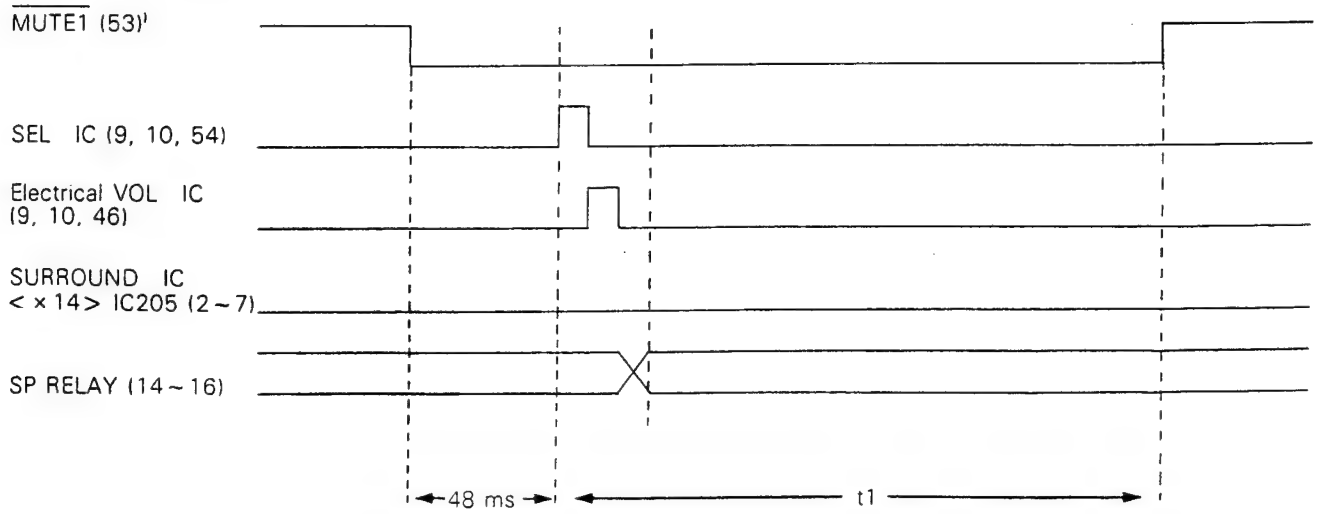
CIRCUIT DESCRIPTION

⑦ SURROUND ON and SURROUND MODE switching
CENTER MODE switching



t1: 1000 ms (Including time for transmission of data do selector IC, electronic VOL IC and SURROUND IC).
*1: Since data before changeover are left in the RAM for DELAY when the surround is composed by using DSP IC and the like, data of the current surround mode are sent once again to the DSP IC and the like after clearing the RAM for DELAY

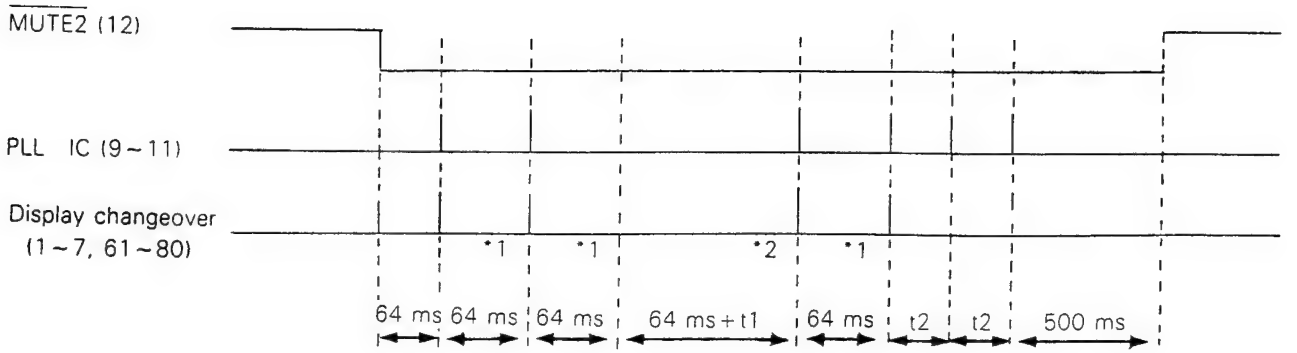
⑧ SURROUND OFF (BYPASS)



t1: 1000 ms (Including time for transmission of data do selector IC and electronic VOL IC).

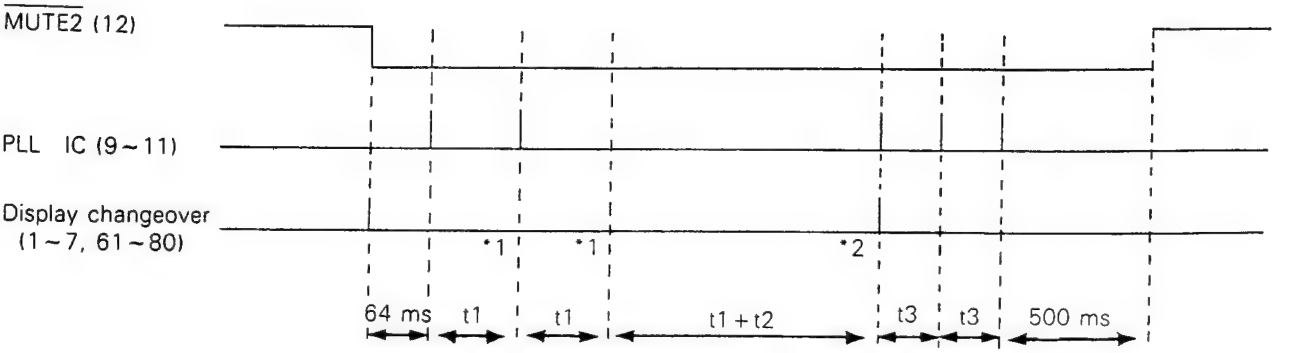
CIRCUIT DESCRIPTION

⑰ AF SEARCH



t1: 560 ms (RDS CHECK)
t2: 80 ms (Once or twice/IF count time)
*1: When SD = High (Without station)
*2: When SD = Low (With station)

⑱ PTY SEARCH

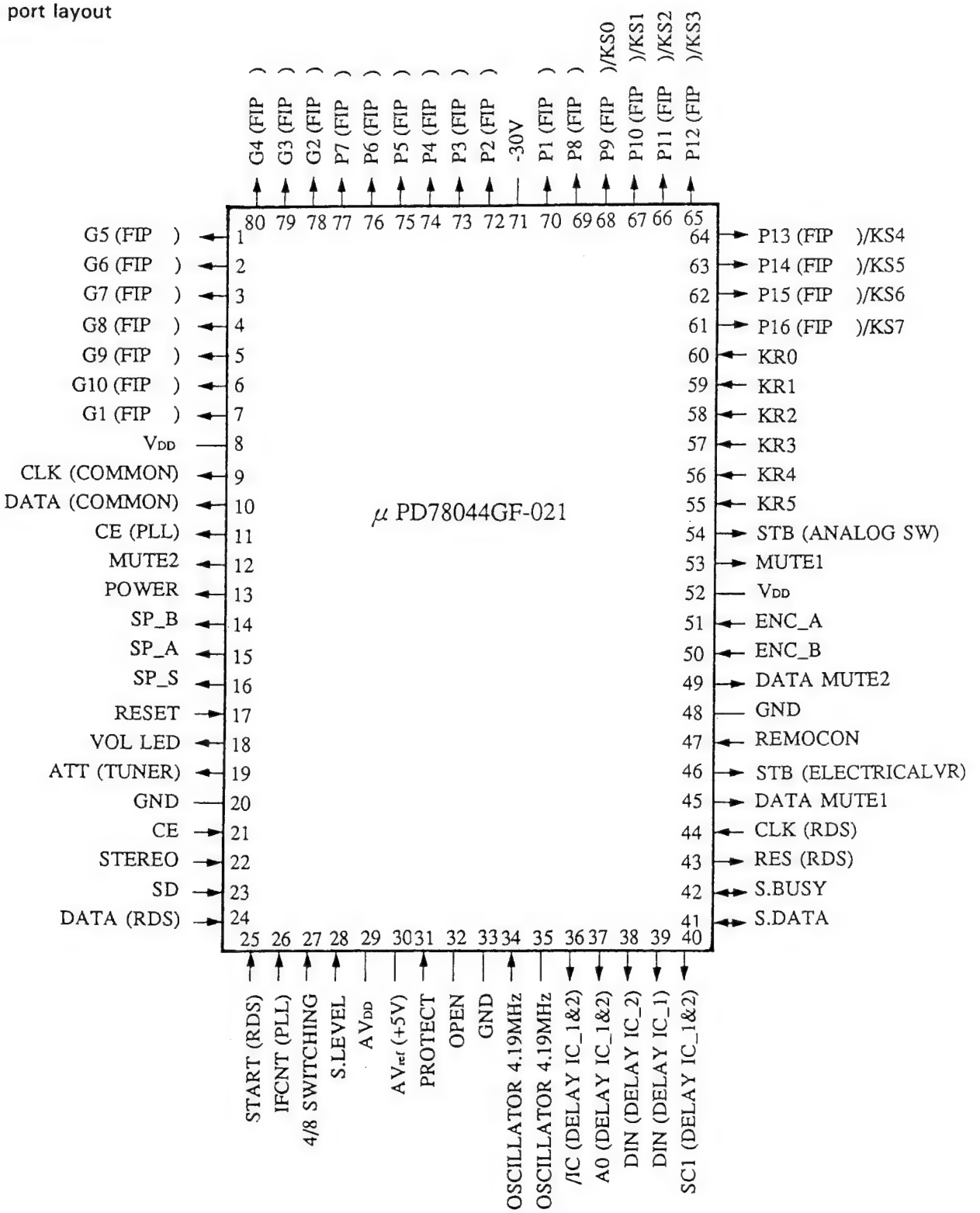


t1: 32 ms (BAND EDGE = 64 ms)
t2: 480 mS + 240 mS (RDS CHECK)
t3: 80 ms (Once or twice/IF count time)
*1: When SD = High (Without station)
*2: When SD = Low (With station)

CIRCUIT DESCRIPTION

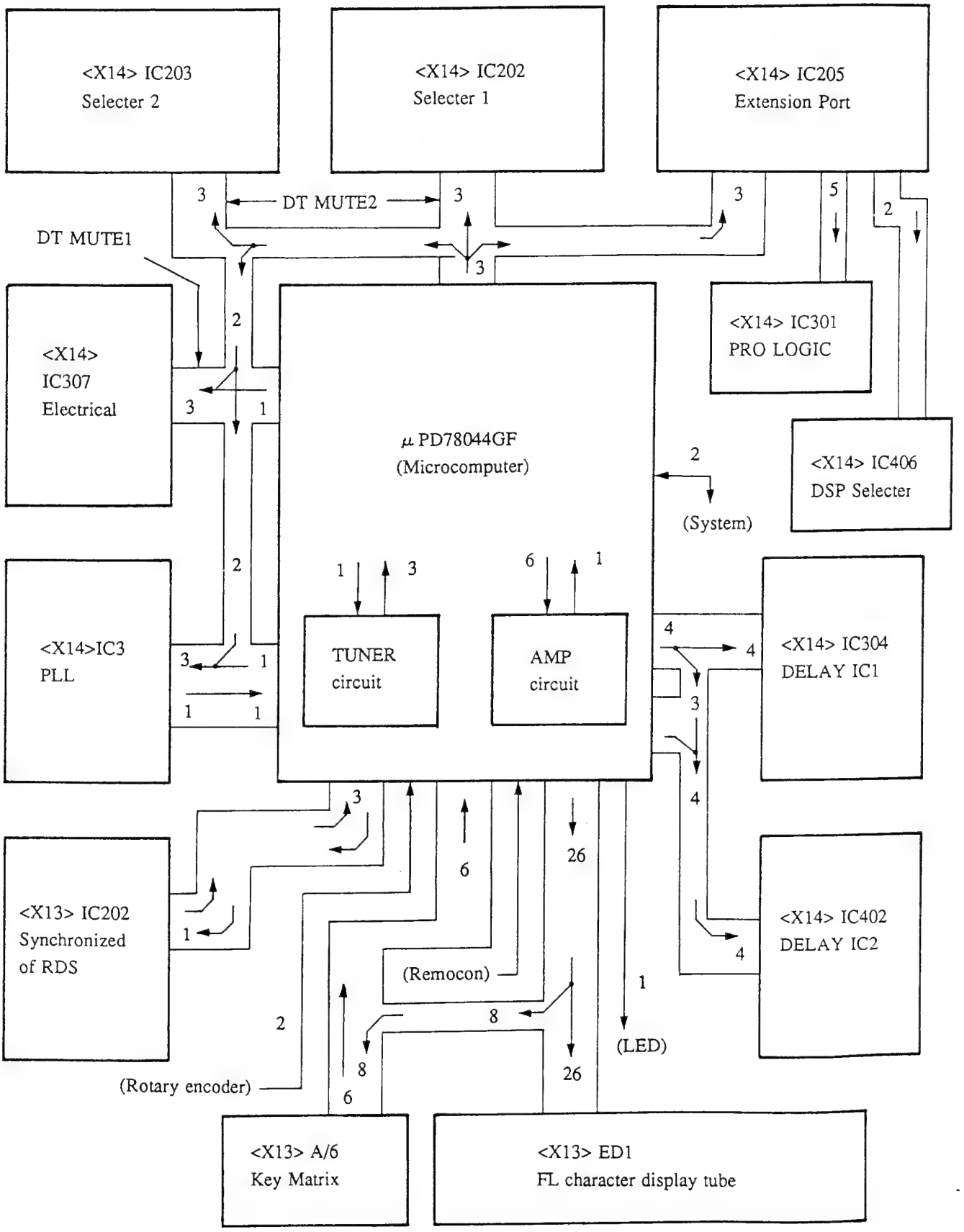
Microprocessor: μPD78044GF-021 (X13: IC1)

μCom port layout



CIRCUIT DESCRIPTION

Microprocessor periphery block Diagram



CIRCUIT DESCRIPTION

Pin description

Pin Number	Port I/O	Name	Description
1	OUT	G5	FL gird 5
2	OUT	G6	FL grid 6
3	OUT	G7	FL grid 7
4	OUT	G8	FL grid 8
5	OUT	G9	FL grid 9
6	OUT	G10	FL grid 10
7	OUT	G1	FL gird 1
8	—	V_{DD}	Microprocessor power supply
9	OUT	CLK (COMMON)	Clock for control IC (ANALOG SW/PLL IC/Electronic VOL)
10	OUT	DATA (COMMON)	Data for control IC (ANALOG SW/PLL IC/Electronic VOL)
11	OUT	CE (PLL)	PLL CE
12	OUT	$\overline{\text{MUTE2}}$	Amplifier MUTE control H: MUTE OFF L: MUTE ON
13	OUT	POWER	Power relay control H: POWER ON L: POWER OFF
14	OUT	SP__B	Speaker B relay control H: SP__B ON L: SP__B OFF
15	OUT	SP__A	Speaker A relay control H: SP__A ON L: SP__A OFF
16	OUT	SP__S	Surround speaker relay control H: SP__S ON L: SP__S OFF
17	IN	$\overline{\text{RESET}}$	Microprocessor reset
18	OUT	VOL LED	VOLUME LED control H: LED OFF L: LED ON
19	OUT	ATT (TUNER)	Attenuator control H: ATT ON L: ATT OFF
20	—	GND	A/D power supply
21	IN	CE	Microprocessor CE
22	IN	STEREO	Stereo signal detection H: MONAURAL L: STEREO
23	IN	SD	Tuning signal detection H: NOT TUNED L: TUNED
24	IN	DATA (RDS)	RDS data
25	IN	START (RDS)	RDS start bit
26	IN	IFCNT (PLL)	IF CNT data (PLL DO)
27	IN	4/8 Changeover	Speaker impedance switching H: 4 Ω L: 8 Ω
28	IN	S. LEVEL	SIGNAL level (A/D)
29	—	AV_{DD}	A/D power supply
30	—	AVref	A/D reference voltage (+5 V)
31	IN	PROTECTION	Protection detection H: PROTECTION L: NORMAL
32	—	OPEN	
33	—	Vss (GND)	Microprocessor power supply
34	IN	X1	4.19 MHz oscillator
35	OUT	X2	4.19 MHz oscillator
36	OUT	/IC (DELAY1 & 2)	DELAY IC 1 & 2 initial clearing
37	OUT	A0 (DELAY 1 & 2)	DELAY IC 1 & 2 address/data
38	OUT	DIN (DELAY 1)	DELAY IC 1 data
39	OUT	DIN (DELAY 2)	DELAY IC 2 data
40	OUT	SC1 (DEALY 1 & 2)	DELAY IC 1 & 2 clock

CIRCUIT DESCRIPTION

Pin Number	Port I/O	Name	Description
41	I/O	S. DATA	8 bit system DATA
42	I/O	S. BUSY	8 bit system BUSY
43	OUT	$\overline{\text{RESET}}$ (RDS)	RDS reset
44	IN	CLK (RDS)	RDS clock
45	OUT	DT MUTE 1	Data MUTE 1 H: DATA MUTE ON L: DATA MUTE OFF
46	OUT	STB (Electrical VOL)	Electronic VOL STB
47	IN	REMOCON	Remote controller input
48	—	GND	
49	OUT	DT MUTE 2	Data MUTE 2 H: DATA MUTE ON L: DATA MUTE OFF
50	IN	ENC_B	Encoder input B
51	IN	ENC_A	Encoder input A
52	—	V_{DD}	Microprocessor power supply
53	OUT	$\overline{\text{MUTE 1}}$	Selector MUTE control H: MUTE OFF L: MUTE ON
54	OUT	STB (ANALOG SW)	Analog SW STB
55	IN	KR5	Key return 5
56	IN	KR4	Key return 4
57	IN	KR3	Key return 3
58	IN	KR2	Key return 2
59	IN	KR1	Key return 1
60	IN	KR0	Key return 0
61	OUT	P16/KS7	FL segment 16/Key scan 7
62	OUT	P15/KS6	FL segment 15/Key scan 6
63	OUT	P14/KS5	FL segment 14/Key scan 5
64	OUT	P13/KS4	FL segment 13/Key scan 4
65	OUT	P12/KS3	FL segment 12/Key scan 3
66	OUT	P11/KS2	FL segment 11/Key scan 2
67	OUT	P10/KS1	FL segment 10/Key scan 1
68	OUT	P9/KS0	FL segment 9/Key scan 0
69	OUT	P8	FL segment 8
70	OUT	P1	FL segment 1
71	—	−30 V (Vload)	FL drive power supply
72	OUT	P2	FL segment 2
73	OUT	P3	FL segment 3
74	OUT	P4	FL segment 4
75	OUT	P5	FL segment 5
76	OUT	P6	FL segment 6
77	OUT	P7	FL segment 7
78	OUT	G2	FL grid 2
79	OUT	G3	FL gird 3
80	OUT	G4	FL grid 4

CIRCUIT DESCRIPTION

RDS product operation (KR-V6050/7050: E, T type)

1. Outline of RDS

RDS (RADIO DATA SYSTEM) is a new FM broadcasting feature which is being carried out in the 87.5—108.0 MHz FM broadcasting frequency band. RDS consists of broadcasting digital signals on the subcarrier (57 kHz) of the FM signal, and the digital signal is on the upper part of the MAIN and SUB (STEREO) carriers of the ordinary FM broadcasting. Therefore, it exerts no influence on the sound of the FM broadcasting

Since RDS broadcasting has the major purpose of providing service covering movable receivers, its functions extend over a wide range, but it does not have so much applications related to ordinary audio tuners for home use.

RDS broadcasting was originated in Europe, and as things now stand it is not available in other areas.

2. Basic functions of RDS

As things now stand, 14 basic functions of RDS have been made public, and there is possibility of addition of new functions in the future. The 14 functions are listed in the followings.

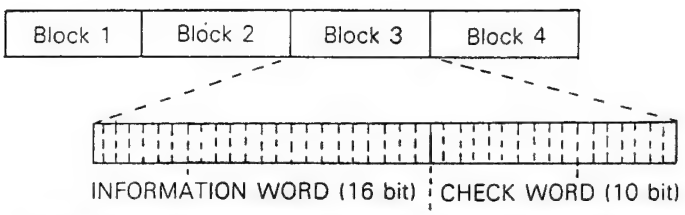
① PI (Program Identification)
② PS (Program Service)
③ PTY (Program TYpe)
④ TP (Identification of Traffic Program)
⑤ AF (Alternative Frequency List)
⑥ TA (Identification of Traffic Announcement)
⑦ DI (Decoder Identification)
⑧ M/S (Music/Speech Switch)
⑨ PIN (Program Item)
⑩ RT (Character Broadcasting)
⑪ EON (Information on Other Networks)
⑫ TDC (Transparent Data Channel)
⑬ IH (In House Application)
⑭ CT (Clock Time and Date)

It is presumed that most of these functions target movable receivers.

The receivers announced this time (KR-V6050/V7050) use five functions, ①, ②, ③, ⑤ and ⑭.

3. RDS data format

RDS data are transmitted continuously in by arranging them in units (groups) of 104 bits. Each 104-bit data unit (group) consists of 4 blocks, and each block consists of 26 bits of data. Each 26-bit data block consists of 16-bit information word and 10-bit check word. The construction of the data group and data blocks are shown below.



Since the 10-bit check word is the data for error detection, its detailed description is omitted. The 16-bit information word is the data to realize the RDS functions.

① Block 1

This 16-bit data represents the PI code. In all groups, block 1 is the PI (identification) code of the broadcasting station carrying out RDS broadcasting.

② Block 2

This 16-bit data contains information of various kinds. The most basic information is the group type code (4-bit), and indicates the type of the group which the block in question is contained in. Moreover, there is also the Bo code (1 bit) which indicates the version of the group. The type of the group becomes clear from this 5-bit data. Thus, there are basically 32 types of groups consisting of XA and XB (X = 0 to 15). Block 2 of all groups contains this code.

Another basic data is the TP data (1 bit) and the PTY data (5 bit), where TP is the traffic program identification code and PTY is the type code of the broadcasting program. Also these data are contained in Block 2 of all groups.

The remaining 5 bits have different uses, depending on the group type code.

③ Block 3

Block 3 has different uses, depending on the group type code. It must be remembered, however, that the same contents as Block 1 (PI code) are sent in the case of group type XB (X = 0 to 15).

④ Block 4

Block 4 has different uses, depending on the group type code.

As can be seen, the use of the last 5 bits of Block 2 and the use of data of Block 3 and Block 4 depends of the group type data of the first 5 bits of Block 2.

4. Description of the functions of RDS

Only the following RDS functions used in the receivers KR-V6050/7050 (hereinafter KR-V) featuring RDS.

1. PI (Program Identification)
2. PS (Program Service)
3. PTY (Program Type)
4. AF (List of Alternative Frequencies)
5. CT (Clock time and Date)

4-1. PI (Program Identification) function

As mentioned previously in "3. RDS Data Format", PI code is contained in all groups, and therefore data determination does not take so much time.

The PI code is an important data because it is the broadcasting station identification code, but the PI code itself does not realize any function. This time the PI code is used to determine the synchronization of RDS and to check the coincidence of the broadcasting station during AF search (described later on).

4-2. PS (Program Service) function

In the case of Groups Type 0A and Type 0B, PS data consists of the last 2 bits of Block 2 and the totality of Block 4 (2 bytes). Since PS data has (8-column × 1 BYTE) composition, it is necessary to road at least 4 times from 0A to 0B until reading all columns, and the determination of data requires relatively long time. Moreover, the indication requires some time to change over, because it changes over after the entry of all columns and the determination of the data.

The PS function indicates the broadcasting station name, and the indication mode is switched to the PS indication mode when RDS broadcasting is received and the PS indication mode when RDS broadcasting is received and the PS data is determined.

The indication mode has the following order of priority:

① PS indication
② SNPS indication
③ Frequency indication

PS indication appears on the display when the PS data is determined, the SNPS indication appears on the display when there is no PS and there is SNPS data, and the frequency is indicated when there is no PS nor SNPS. This time the DISPLAY key is not used to switch the indication mode, and is used to confirm the contents indicated on the display in each case, instead. The PS indication, the SNPS indication, the frequency indication and the CT indication are switched cyclically, but the display returns to the original state after 5 seconds. When there is no PS data, there is no PS indication on the display even when PS indication is requested by the DISPLAY key (the display does not get in the PS indication mode).

As mentioned above, the determination of the PS data requires some time, and therefore it is impossible to carry out PS indication immediately after changing the frequency. Such being the case, frequency indication is carried out during 3 seconds after changing the frequency.

4-3. PTY (Program Type) function

Since PTY data is contained in all groups, in the same way as PI data, it does not take so much time for data determination. Basically, time required for data determination is the same as in the case of PI or slightly longer.

PTY is the function which identifies the type of program being broadcasted, and consists of 5-bit data. Therefore, it is possible to have 32 types, but as things now stand only 17 types have been defined (Refer to the attached sheets). This data can be used to carry out the "PTY search", which consists of searching for the broadcast the user wants to listen to.

PTY search requires a series of operations, that consist of getting in the PTY selection mode by means of the PTY key, selecting the desired PTY by means of the UP/DOWN key and the ten keys (0 to 9), and starting the search by means of the +10 key. The mode is canceled when no key is operated within 5 seconds.

The search operation increases the frequency in steps of 100 kHz, and stops at the broadcasting station which coincides with the selected PTY. If the selected PTY is not found even when the frequency scans through the whole broadcasting band, the search operation is finished. The "NO PROG" indication is displayed for 5 seconds when the broadcasting station of the type being searched is not found

CIRCUIT DESCRIPTION

If RDS broadcasting is being received when the PTY key is pushed in the first place, the current PTY is displayed, and the selection processing is carried out at that point. PTY search can be carried out even when the station being received is not broadcasting RDS (even when no station is being received). In this case the first PTY indication is "NONE" (same as PTY = 0).

4-4 AF (Alternative Frequency List) function

AF data consist of 2-byte data of Block 3 in the case of group type OA. Since each AF data consists of 1 byte 2 AF data are transmitted each time.

AF data refer to the alternative frequency of the station which is being broadcasted. If the AF list is prepared by gathering these data, it becomes possible to search and find another station with receiving conditions that are better than the current ones from that list, when the receiving conditions of the station which is being received becomes bad. This is the concept of "AF search".

AF search is the function to find, from the existing AF list, another broadcasting station which has receiving conditions that are better than the current ones. If the broadcasting station which is being received is an RDS broadcasting station (station carrying out RDS broadcasting), search is started when the AF key is pushed. No search is carried out, however, when there is no AF list.

In the search operation the current frequency, PI code, S (signal) level, and N (noise) level are stored in the first place as best data, and then the frequency data of the AF list are scanned. When a station is found the PI code is checked for coincidence, and if the PI coincides the receiving states (S-level, N-level) are compared. The best receiving conditions are regarded as the best data, and the best values (No. 1) and better values (No. 2) are fetched. Search operation is carried out up to the last station of the AF list, and when the whole AF list is searched, the best receiving station is determined out of the surviving best data and better data. Details are shown in the attached flowchart.

There are 2 methods to transmit the AF data, and they are called "Method A" and "Method B". They have minor differences in the order of transmission of alternative frequency data. In "Method A" alternative frequency data of a maximum of 25 stations are transmitted in succession. In "Method B" either of the pair of alternative frequencies (2 frequencies) being transmitted contains the same data as the pair transmitted next. In "Method B" the transmitted data have the following meanings, depending on how they are transmitted.

(PATTERN 1): The TUNING frequency is the data composing the pair, and we have f1 < f2.

f1	f2	
88.1 MHz	90.0 MHz	(90.0 MHz is being received)
90.0 MHz	101.0 MHz	

In this case both 88.1 MHz and 101.0 MHz stations have the same PI, and these data are fetched in the AF list. Therefore, these frequencies are submitted to AF search.

(PATTERN 2): The TUNING frequency is the data composing the pair, and we have f1 > f2.

f1	f2	
91.0 MHz	89.0 MHz	(91.0 MHz is being received)
93.7 MHz	91.0 MHz	

In this case the 89.0 MHz and 93.7 MHz stations have different PI (local broadcasting), and these data are not fetched in the AF list. Therefore, these frequencies are not submitted to AF search.

(PATTERN 3): The TUNING frequency is not the data composing the pair.

f1	f2	
93.4 MHz	91.0 MHz	(91.0 MHz is being received)
100.7 MHz	93.4 MHz	

Since in this case the main station (91.0 MHz) outputs the AF list for the 93.4 MHz substation, this AF list is not the AF (alternative frequency) of the station that is being received. It is the data for the substation without RDS broadcasting facilities. Therefore, no AF search is carried out with these frequencies.

4-5. CT (clock time and date) functions

The CT (clock) function transmits the current year/month/day as well as minute/second as RDS data.

The feature being used this time decodes only the hour and minute. CT data are transmitted once every minute. Therefore, misreading of a code may result into serious misindication on the display. As a countermeasure to cope with that problem, clock count is carried out inside the microcomputer concurrently with the fetching of the CT data. When CT data is not received for 5 minutes or one, clock count is stopped.

When CT data is entered correctly 3 successive times, clock count is started inside the microprocessor and indication of the clock on the display becomes possible. After that, the clock counter inside the microprocessor is corrected when CT data is received, and the clock counter inside the microcomputer is advanced by 1 minute when no CT data is received after the passage of 1 minute. Since ceramic clock is used instead of crystal oscillator in the receiver microprocessor being used this time, there is possibility of error of a few seconds when it is counted during 5 minutes with no correction. Therefore, when no CT data is received for 5 minutes, the clock data is cleared and the clock count by the microprocessor is stopped.

The clock indication is changed over by means of the DISPLAY key, but the indication returns to the original state after 5 seconds. There is no CT indication when there is no clock data and when no RDS broadcasting is being received.

APPENDIX

PTY Data Table

No.	PTY Code	Programme Type	PTY Display	Ten Key	UP/DOWN
0	00	No programme type or undefined	NONE	—	—
1	10	Pop music	POP M	1	o
2	11	Rock music	ROCK M	2	o
3	12	M.O.R. music	M.O.R. M	3	o
4	13	Light classical	LIGHT M	4	o
5	14	Serious classical	CLASSICS	5	o
6	15	Other music	OTHER M	6	o
7	01	News	NEWS	7	o
8	02	Current Affairs	AFFAIRS	8	o
9	03	Information	INFO	9	o
10	04	Sport	SPORT	0	o
11	05	Education	EDUCATE	—	o
12	06	Drama	DRAMA	—	o
13	07	Culture	CULTURE	—	o
14	08	Science	SCIENCE	—	o
15	09	Varied	VARIED	—	o
16-30	16-30	Not yet assigned	NONE	—	—
31	31	Alarm	ALARM	—	—

CIRCUIT DESCRIPTION

Dolby Pro-Logic Surround Matrix Decoder: SSM-2126 (X14: IC301)

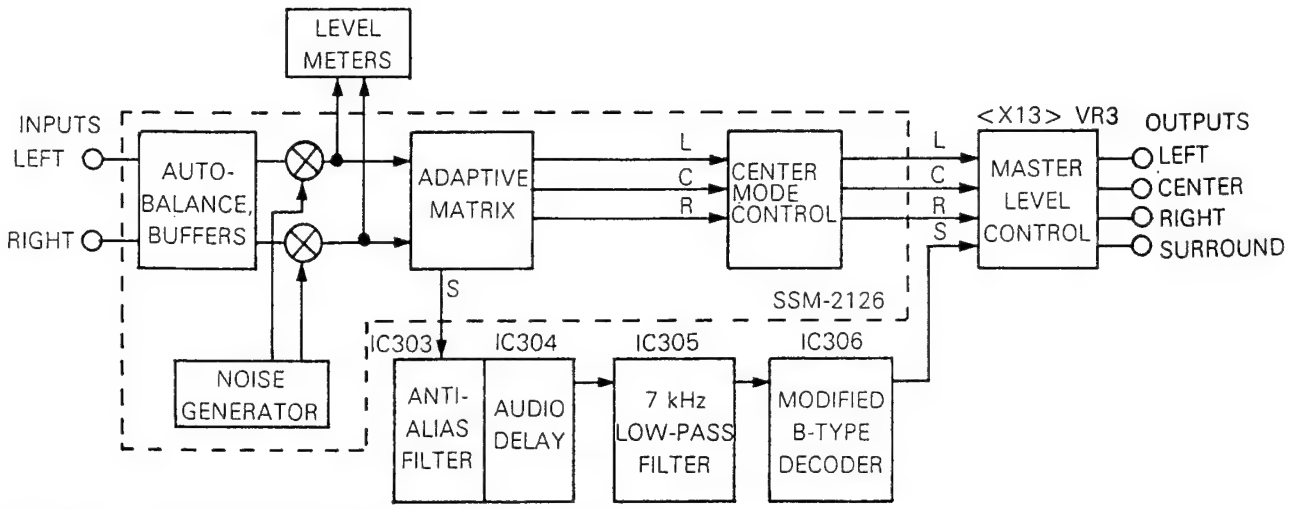
FEATURES

Noise Generator and Autobalance Circuits are Contained On-Chip
Autobalance On/Off Control
4-Channel Pro-Logic and Dolby 3 (Surround Channel Defeat) Modes Available
Selectable Center Channel Modes—Normal, Wideband, Phantom, Off
Direct Path Bypass (Normal 2-Channel Stereo Mode)
Wide Channel Separation
Any Channel to Another—25 dB min
Wide Dynamic Range—103 dB typ
Low Total Harmonic Distortion—0.02% typ
Available in a 48-Pin Plastic DIP
CMOS and TTL Compatible Control Logic

APPLICATIONS

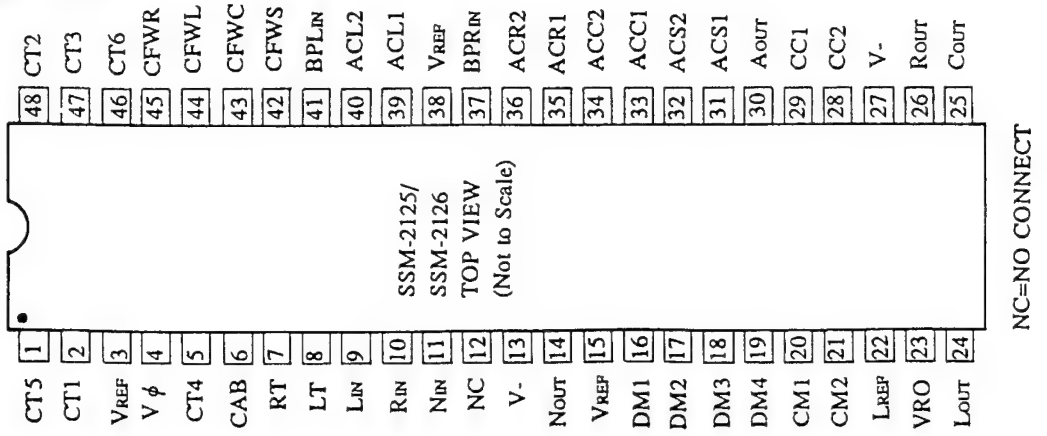
Direct View and Projection TV
Integrated A/V Amplifiers
Laserdisc and CD-V Players
Video Cassette Recorders
Stand-Alone Surround Decoders
Home Satellite Receiver/Descramblers

FUNCTIONAL BLOCK DIAGRAM



* Dolby is a registered trademark of Dolby Laboratories Corporation, San Francisco, California.

PIN CONNECTIONS



CIRCUIT DESCRIPTION

PIN DESCRIPTION

Pin Number	Name	Function
1	CT5	Long Time Constant, C/S
2	CT1	Short Time Constant, L/R Comparators
3	V_{REF}	Reference Voltage: Ground or Pseudoground
4	V+	Positive Supply
5	CT4	Short Time Constant, C/S Comparators
6	CAB	Autobalance Time Constant
7	RT	Buffered, Autobalanced Right Channel Signal
8	LT	Buffered, Autobalanced Left Channel Signal
9	L_{IN}	Left Channel Input
10	R_{IN}	Right Channel Input
11	N_{IN}	Filtered Noise Input
12	NC	Do Not Connect
13	V−	Negative Supply (Ground in Single Supply)
14	N_{OUT}	Noise Output
15	V_{REF}	Reference Voltage: Ground or Pseudoground
16	DM1	Digital Operating-Mode Control Input
17	DM2	Digital Operating-Mode Control Input
18	DM3	Digital Operating-Mode Control Input
19	DM4	Digital Operating-Mode Control Input
20	CM1	Digital Center-Mode Control Input
21	CM2	Digital Center-Mode Control Input
22	L_{REF}	Logic Reference Voltage (Threshold = L_{REF} + 1.4 V)
23	VRO	V_{REF} Out—Pseudoground Output
24	L_{OUT}	Left Channel Output
25	C_{OUT}	Center Channel Output
26	R_{OUT}	Right Channel Output
27	V−	Negative Supply (Ground in Single Supply)
28	CC2	Center Normal-Mode Filter Input (Z = 15 kΩ)
29	CC1	Center Normal-Mode Filter Output

Pin Number	Name	Function
30	S_{OUT}	Surround Channel Output
31	ACS1	Surround Channel Steering Signal AC Coupling and High-Pass Filter
32	ACS2	Surround Channel Steering Signal AC Coupling and High-Pass Filter
33	ACC1	Center Channel Steering Signal AC Coupling and High-Pass Filter
34	ACC2	Center Channel Steering Signal AC Coupling and High-Pass Filter
35	ACR1	Right Channel Steering Signal AC Coupling and High-Pass Filter
36	ACR2	Right Channel Steering Signal AC Coupling and High-Pass Filter
37	BPR_{IN}	Filtered Right Channel Input to Steering Signal Generator
38	V_{REF}	Reference Voltage: Ground or Pseudoground
39	ACL1	Left Channel Steering Signal AC Coupling and High-Pass Filter
40	ACL2	Left Channel Steering Signal AC Coupling and High-Pass Filter
41	BPL_{IN}	Filtered Left Channel Input to Steering Signal Generator
42	CFWS	Surround Channel Full-Wave Rectifier Low-Pass Filter
43	CFWC	Center Channel Full-Wave Rectifier Low-Pass Filter
44	CFWL	Left Channel Full-Wave Rectifier Low-Pass Filter
45	CFWR	Right Channel Full-Wave Rectifier Low-Pass Filter
46	CT6	Short Time Constant, C/S
47	CT7	Shot Time Constant, L/R
48	CT2	Long Time Constant, L/R

Control States for DM1 – DM4 (PIN NO. ⑯~⑲)

DM1	DM2	DM3	DM4	Operating State	Function
1	1	1	1	Dolby + Channel (''Pro-Logic''), Autobalance On	
1	1	0	1	Dolby + Channel (''Pro-Logic''), Autobalance Off	X
1	0	1	1	Dolby 3-Channel (''Dolby 3''), Autobalance On	
1	0	0	1	Dolby 3-Channel (''Dolby 3''), Autobalance Off	X
0	1	1	1	Surround Channel Noise	
0	1	1	0	Right Channel Noise	
0	1	0	1	Center Channel Noise	
0	1	0	0	Left Channel Noise	
0	0	X	1	Mute	X
0	0	1	0	Stereo Bypass, Auto-balance On	X
0	0	0	0	Stereo Bypass, Auto-balance Off	X

Center Channel Functional Modes (PIN NO. ⑳, ㉑)

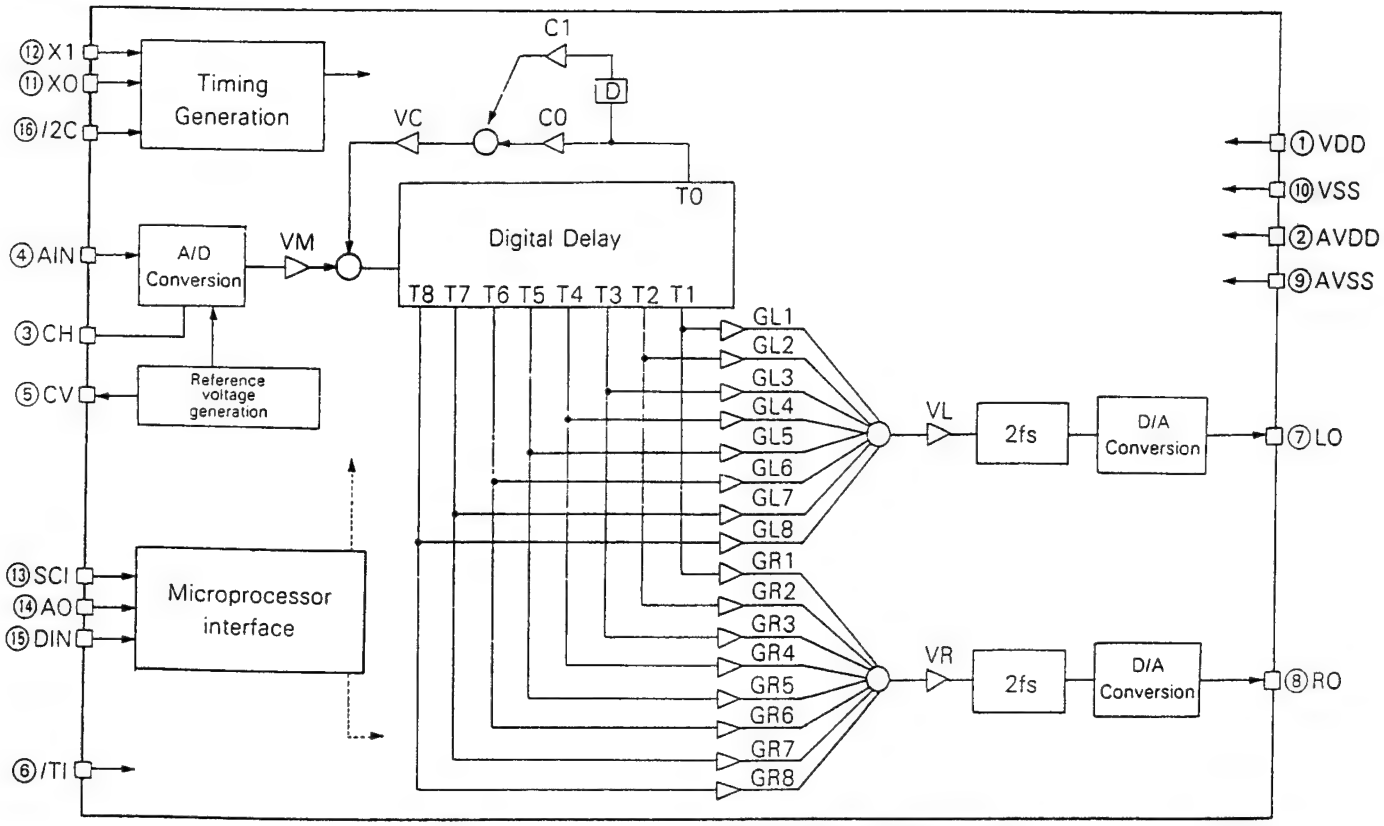
CM1	CM2	Mode	Function
0	0	Center Channel Off	X
0	1	Center Channel Wideband	
1	0	Phantom Center Channel	
1	1	Normal Center Mode	

0: L 1: H X: H or L

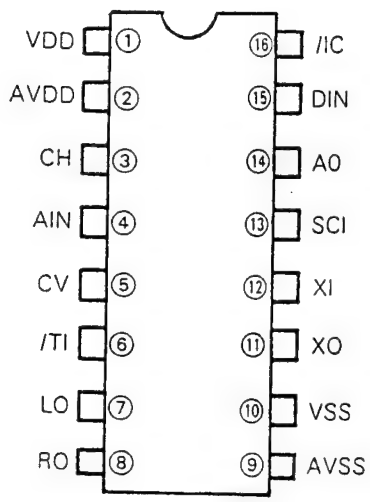
CIRCUIT DESCRIPTION

Digital delay IC: YM7128B (X14: IC304, 402)

Si-Gate CMOS PROCESS LSI



Pin connection



Pin Function description

Terminal No.	Terminal name	I/O	Function
1	VDD	—	Digital system +5 V power supply
2	AVDD	—	Analog system +5 V power supply
3	CH	O	Sample holding capacitor add-on terminal
4	AIN	I	Analog signal input terminal (Entered by CV voltage reference).
5	CV	O	A/D conversion reference voltage output
6	/TI	I+	Test input terminal (Normally unconnected)
7	LO	O	L-channel output (Analog output)
8	RO	O	R-channel output (Analog output)
9	AVSS	—	Analog system ground
10	VSS	—	Digital system ground
11	XO	O	Crystal oscillator (standard 7.16 MHz) connection
12	XI	I	(XI is the analog input terminal when using external clock)
13	SCI	I	Data shift clock input terminal
14	A0	I	Address/data identification signal input terminal
15	DIN	I	Data input terminal
16	/IC	I+	Initial clear terminal

Terminals bearing the mark "+" contain built-in pull-up resistor.

CIRCUIT DESCRIPTION

Video amp. selector: CXA1558L (X09: IC2)

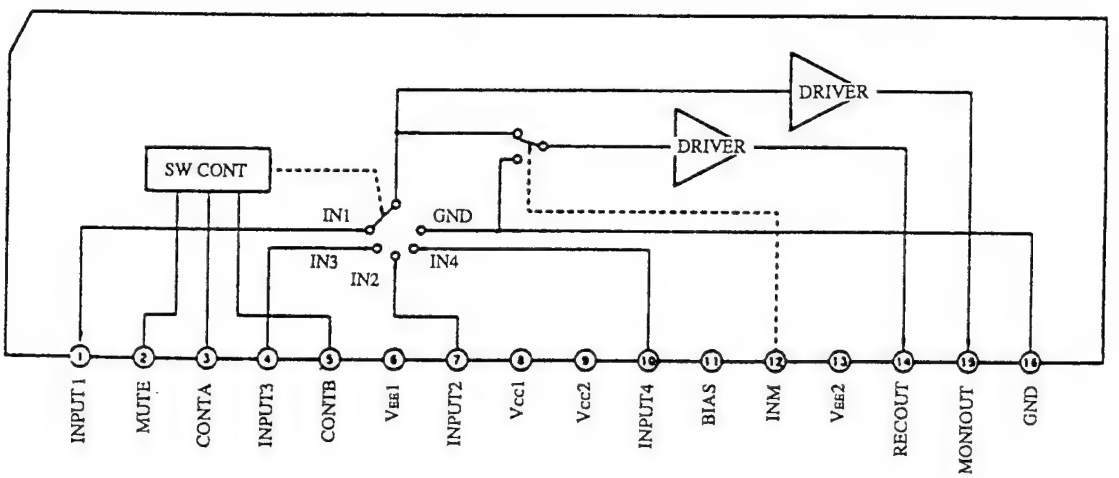
Strong points

- 4-input, 2-output
- Low crosstalk Typ-70 dB
- Two built-in 75-Ohm driver systems with even voltage gain characteristics
- Built-in mute function
- One of the 2 output systems provided with inhibit (mute) function

Construction

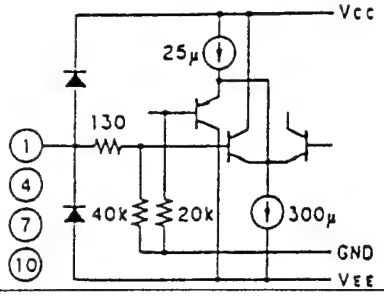
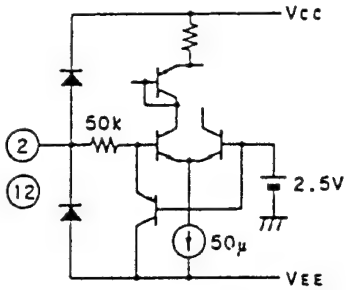
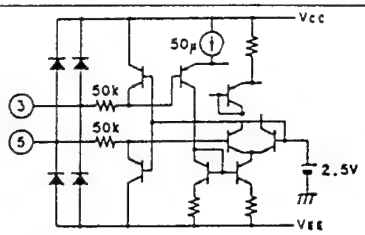
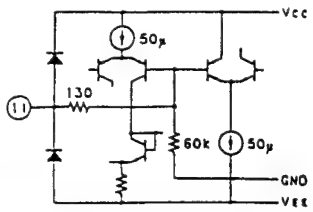
- Bipolar monolithic IC

Block diagram and terminal layout diagram



CIRCUIT DESCRIPTION

Pin Description

Terminal Number	Terminal name	Terminal voltage (V)	Equivalent circuit	Terminal description
1 4 7 10	INPUT1 INPUT3 INPUT2 INPUT4	0 0 0 0		Signal input terminal. The standard input level is 1 $V_{p\text{-}p}$. The input resistance is 40 KΩ each. (Normally, these terminals should be grounded with 75Ω when using).
2	MUTE	0≦L≦1.5* H≧3.5*		This is the control terminal to mute the input signal. The mute function is canceled when this terminal is stuck to Low. All input signals are muted simultaneously when this terminal is stuck to HIGH. At that time, the output voltages of the terminals ⑭ and ⑮ are stuck to the GND potential.
12	INH	0≦L≦1.5* H≧3.5*		Control terminal for Inhibit to output of ⑭ pin. The inhibit function is canceled when this terminal is stuck to LOW. The inhibit (mute) operation is carried out when this terminal is stuck to HIGH, and the output voltage of the terminal ⑭ is stuck to the GND potential.
3 5	CONTA CONTB	0≦L≦1.5* H≧3.5*		Control terminal for input selection. One out of INPUT1 to INPUT4 is selected through the combination of LOW and HIGH of CONTA and CONTB. (For details refer to the output value list).
6	$V_{EE}1$	−5*	—	Negative power supply terminal of the switch unit.
8	$V_{CC}1$	5*	—	Positive power supply terminal of the switch unit
9	$V_{CC}2$	5*	—	Positive power supply unit of the driver unit.
11	BIAS	0*		This terminal is used by grounding it. (Terminal for IC test).
13	$V_{EE}2$	−5*	—	Negative power supply terminal of the driver unit.

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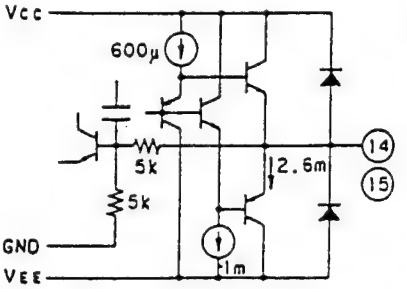
CIRCUIT DESCRIPTION

Terminal Number	Terminal name	Terminal voltage (V)	Equivalent circuit	Terminal description
14	RECOUT	0		Signal output terminal. The standard output level is 1 $V_{p\text{-}p}$ when terminated with 75Ω. The signal selected by the control terminal out of INPUT1 to INPUT4 is outputted. This terminal is outputted the GND potential when the terminal (12) is stuck at HIGH. The 75Ω load can be driven directly.
15	MINIOUT	0		The standard output level is 1 $V_{p\text{-}p}$ when termiknated with 75Ω. The signal selected by the control terminal out of INPUT1 to INPUT4 is outputted. The 75Ω load can be driven directly.
16	GND	0*	—	GND terminal.

* External Input terminal voltage

In/Output value list

Control signal				Output	
CONTA	CONTB	MUTE	INH	RECOUT	MONIOUT
③ PIN	⑤ PIN	② PIN	⑫ PIN	⑭ PIN	⑮ PIN
L	L	L	L	Input signal to INPUT1	
L	H			Input signal to INPUT3	
H	L			Input signal to INPUT2	
H	H			Input signal to INPUT4	
*	*	H		GND voltage level	
L	L	L	H	GND voltage level	Input signal to INPUT1
L	H				Input signal to INPUT3
H	L				Input signal to INPUT2
H	H				Input signal to INPUT4
*	*	H			GND voltage level

* Don't Care

$0 \leqq L \leqq 1.5$ V
$H \geqq 3.5$ V

CIRCUIT DESCRIPTION

7. Compressor/Expandor IC: NE571N (X14: IC302)

7-1. Analog converter circuit

The S/N ratio is lowered due to the digital delay circuit. To offset this, a noise reduction is applied.

The signal is compressed down to half the dynamic range by the compressor circuit and is passed through a digital delay circuit. After that, it is expanded to twice by the expandor circuit to ensure the original dynamic range.

The µPC1571C is a high-performance integrated circuit capable of constituting a high-percision analog converter by a lesser number of externally connected components.

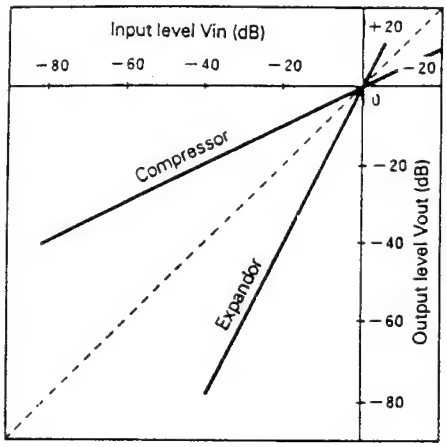
Incorporated within one paciage are a reference voltage circuit and a two-fold operation amplifier, gain cell and rectifier.

This IC can be applied to a limiter, a voltage controlled amplifier, an ordinary home-use device noise reduction circuit, etc., including a compandor as in a telephone system.

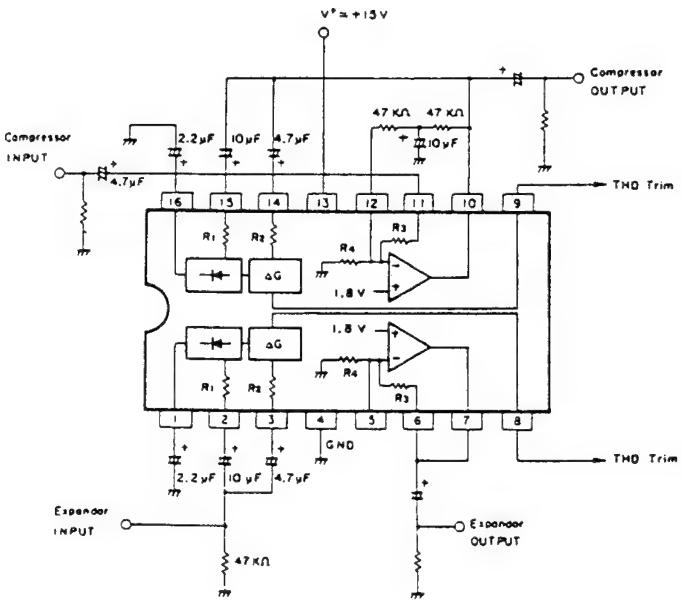
7-2. Features

- Operation on single power, +6V to +16V
- With built-in identical circuits of 2 channels, a compandor can be formed by one package.
- Dynamic range, approx. 70dB
- Distortion rate adjustable

7-3. Standard transfer characteristics



7-4. Standard application circuit example

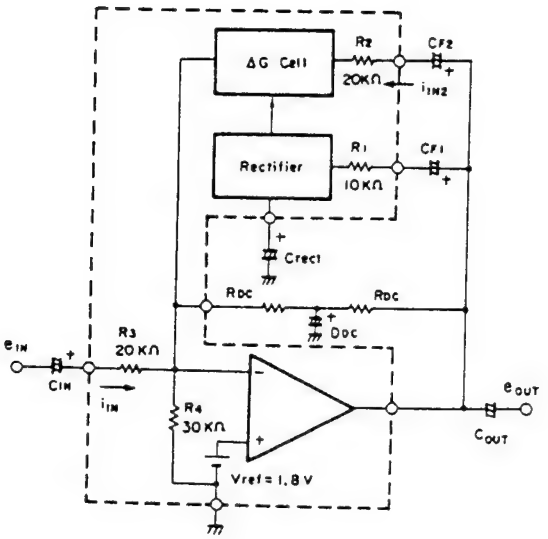


7-5. Description of terminals

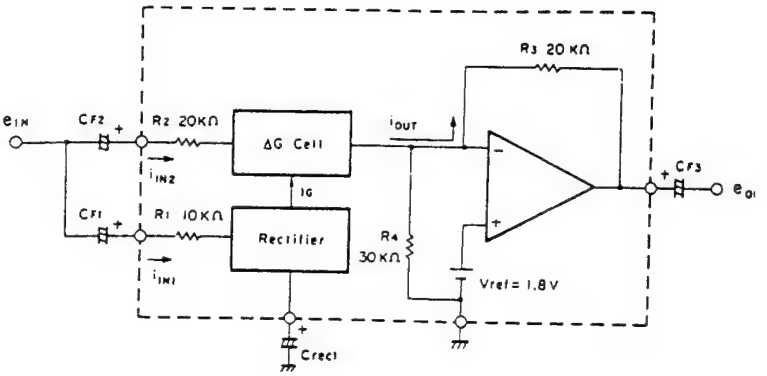
Pin No.	Function	Pin No.	Function
1	Crect1	9	THD Trim 2
2	Rect IN 1	10	OUT 2
3	ΔG Cell IN 1	11	R3 2
4	GND	12	Ii 2
5	Ii 1	13	Vcc
6	R3 1	14	ΔG Cell IN 2
7	OUT 1	15	Rect IN 2
8	THD Trim 1	16	Crect2

CIRCUIT DESCRIPTION

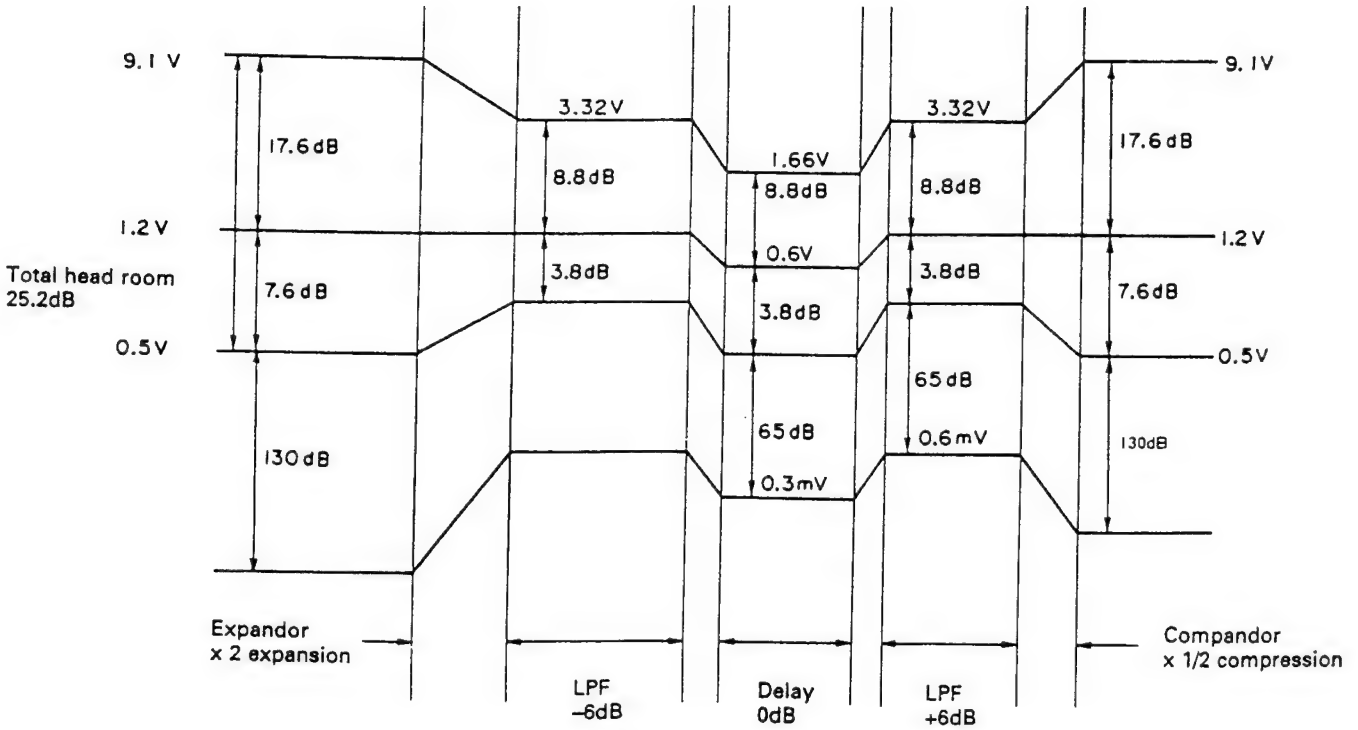
7-6. Compressor application circuit example



7-7. Operation as an expandor



7-8. Theoretical values of head room and noise level with compressor/expandor circuit



ADJUSTMENT

AM. Section: If alignment point is "—", Confirm the value.
If not. Replace the front end pack.

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION			SELECTOR: FM				
1	DISCRIMINATOR	(A) 98.0 MHz 1 kHz, ±75 kHz dev 60 dBμ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (XI 3-)	AUTO or MONO 98.0 MHz	L2 (X14-)	0 V	(a)
2	DISTURTION (MONO) <T.E type only>	(C) 98.0 MHz 1 kHz, ±68.25 MHz dev Selector: L or R Pilot: ±6.75 kHz dev 60 dBμ (ANT input)	(B)	98.0 MHz	L9 (X14-)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0 MHz 1 kHz, ±68.25 kHz dev Selector: L or R Pilot: ±6.75 kHz dev 60 dBμ (ANT input)	(B)	98.0 MHz	IFT (X02-)	Minimum distortion. (L or R)	
4	SEPARATION	(C) 98.0 MHz Stereo signal 60 dB (ANT input)	(B)	AUTO 98.0 MHz	VR5 (X14-)	Minimum crosstalk	
5	TUNING LEVEL	(A) 98.0 MHz 0 dev 19 dbμ (ANT input) 75μ	(B)	AUTO or MONO 98.0 MHz	VR1 (X14-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
AM SECTION			SELECTOR: AM				
(1)	TUNING LEVEL	(D) 1000 (999) kHz 26 dBμ (ANT input)	(B)	—	VR3 (X14-)	Adjust VR2 and stop at the point where ED1 (TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	—	(E) Connect a DC voltmeter across CP1 (L) CP2 (R) CP3 (C) (X09-)	Volume: 0	VR1 (L) VR2 (R) VR3 (C) (X09-)	10 mV (L, R) 5 mV (C)	(b)

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REGLAGE

Section AM: Si le point d'alignement est __, confirmer la valeur.
Sinon, remplacer le bloc avac.

N°.	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF SELECTEUR DES ENTRESS: MF							
1	DISCRIMI-NATEUR	(A) 98.0 MHz 1kHz, ±75 kHz dév 60 dBμ (Entrée ANT)	Relier un voltmètre CC entre les TP3 et TP4. (X13-)	AUTO ou MONO 98.0 MHz	L2 (X14-)	0 V	(a)
2	DISCRIMINA-TEUR (MONO) (T, E Type Seulement)	(c) 98.0 MHz 1 kHz, ±68.75 MHz dév Selection; L ou R Signal pilote: ±6.75 kHz dév 68 dBμ (Entrée ANT)	(B)	98.0 MHz	L9 (X14-)	Distorsion minimale.	
3	DISTORSION (STEREO)	(c) 98.0 MHz 1 kHz, ±68.25 kHz dév Selection: L ou R Signal pilote: ±6.75 kHz dév 60 dBμ (Entrée ANT)	(B)	98.0 MHz	IFT (X02-)	Distorsion minimale. (L ou R)	
4	SEPARATION	(c) 98.0 MHz STEREO Signal 60 dBμ (Entrée ANT)	(B)	AUTO 98.0 MHz	VR5 (X14-)	Diaphonie minimale.	
5	NIVEAU D'ACCORDER	(A) 98.0 MHz 0 dév — 19 dBμ (Entrée ANT) 75 Ω	(B)	AUTO ou MONO 98.0 MHz	VR1 (X14-)	Ajuster VR1 et arréter le mouvement de VR1 au moment oú le ED1 (TUNED) s'allume.	
SECTION MA SELECTEUR: AM							
(1)	NIVEAU D'ACCORDER	(A) 1000 (999) kHz 26 dBμ (Entrée ANT)	(B)	—	VR3 (X14-)	Ajuster VR2 et le mouvement de VR4 au moment oú le ED1 (TUNED) s'allume.	
SECTION AUDIO							
[1]	COURANA DE POLARISATION	—	(E) Connecter un voltmètre CC sur CP1 (L) CP2 (R) CP3 (L) (X09-)	Volume: 0	VR1 (L) VR2 (R) VR3 (L) (X09-)	10 mV (L, R) 5 mV (C)	(b)

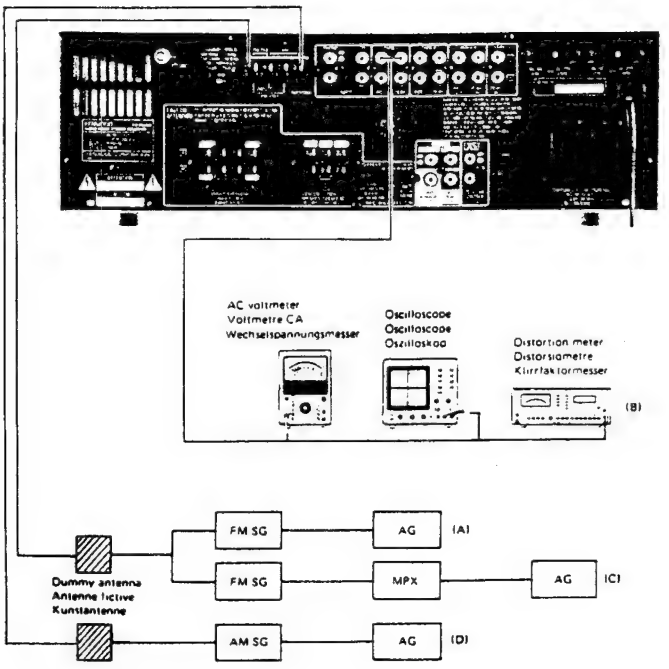
ABGLEICH

MW-Teil: Wenn der Ausrichtpunkt __ ist, den Wert überprüfen.
Wenn nicht, die Fronteinheit auswechseln.

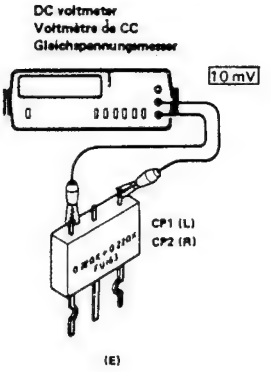
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG EINGANGSUMSCHALTER: FM							
1	DISKRI-MINATOR	(A) 98.0 MHz 1kHz, ±75 kHz Hub 60 dBμ (ANT-Eingang)	Einen Gleich-spannungsmes-ser zwischen TP3 und TP4 auschließen (X13-)	AUTO oder MONO 98.0 MHz	L2 (X14-)	0 V	(a)
2	DISKRIMINA-TOR (2)	(A) 98.0 MHz 1 kHz, ±75 kHz Hub 60 dBμ (ANT-Eingang)	(B)	MONO 98.0 MHz	T3 (X05-)	Minimal Klirr-faktor.	
3	KLIRRFAKTOR (STEREO)	(c) 98.0 MHz 1 kHz, ±68.25 kHz Hub Wäh-ler: L oder R Pilotten: ±6.75 kHz Hub 60 dBμ (ANT-Eingang)	(B)	98.0 MHz	Frontende IFT (X05-)	Minimal Klirr-faktor.	
4	STEREO KANAL TRENNUNG	(c) 98.0 MHz 1 kHz, ±68.25 kHz Hub Wäh-ler: L oder R Pilotten: ±6.75 kHz Hub 60 dBμ (ANT-Eingang)	(B)	98.0 MHz	VR4 (X05-)	Minimales Über-sprechen. Eine Ausgleich-regelung kann notwendig sein. falls links-zu-rechts und rechts-zu-links. Trennun-gen ungleich sind.	
5	ABSTIMM PEGEL	(A) 98.0 MHz 0 Hub — 19 dBμ (ANT-Eingang) 75 Ω	(B)	AUTO oder MONO 98.0 MHz	VR1 (X14-)	Den Pegel wieder-stand aufdrehen, und dem VR1 Halt geben wobei den ED1 (TUNED) an-zeiger leuchtet wird.	
MW-EMPFANGSABTEILUNG Die MW Rahmenantenne angebracht lassen. WAHLER: AM							
(1)	ABSTIMM PEGEL	(A) 1000 (999) kHz 26 dBμ (ANT-Eingang)	(B)	—	VR3 (X14-)	Den Pegel wieder-stand aufdrehen und dem VR2 Halt geben wobei den ED1 (TUNED) anzeiger leuchtet wird.	
AUDIO-ABTEILUNG							
[1]	LEER-LAUFSTROM	—	(E) Einen Gleichspannun-gsmesser über CP1 (L) CP2 (R) anschließen. CP3 (L) (X09-)	Volume: 0	VR1 (L) VR2 (R) VR3 (L) (X09-)	10 mV (L, R) 5 mV (C)	(b)

KR-V6050/7050

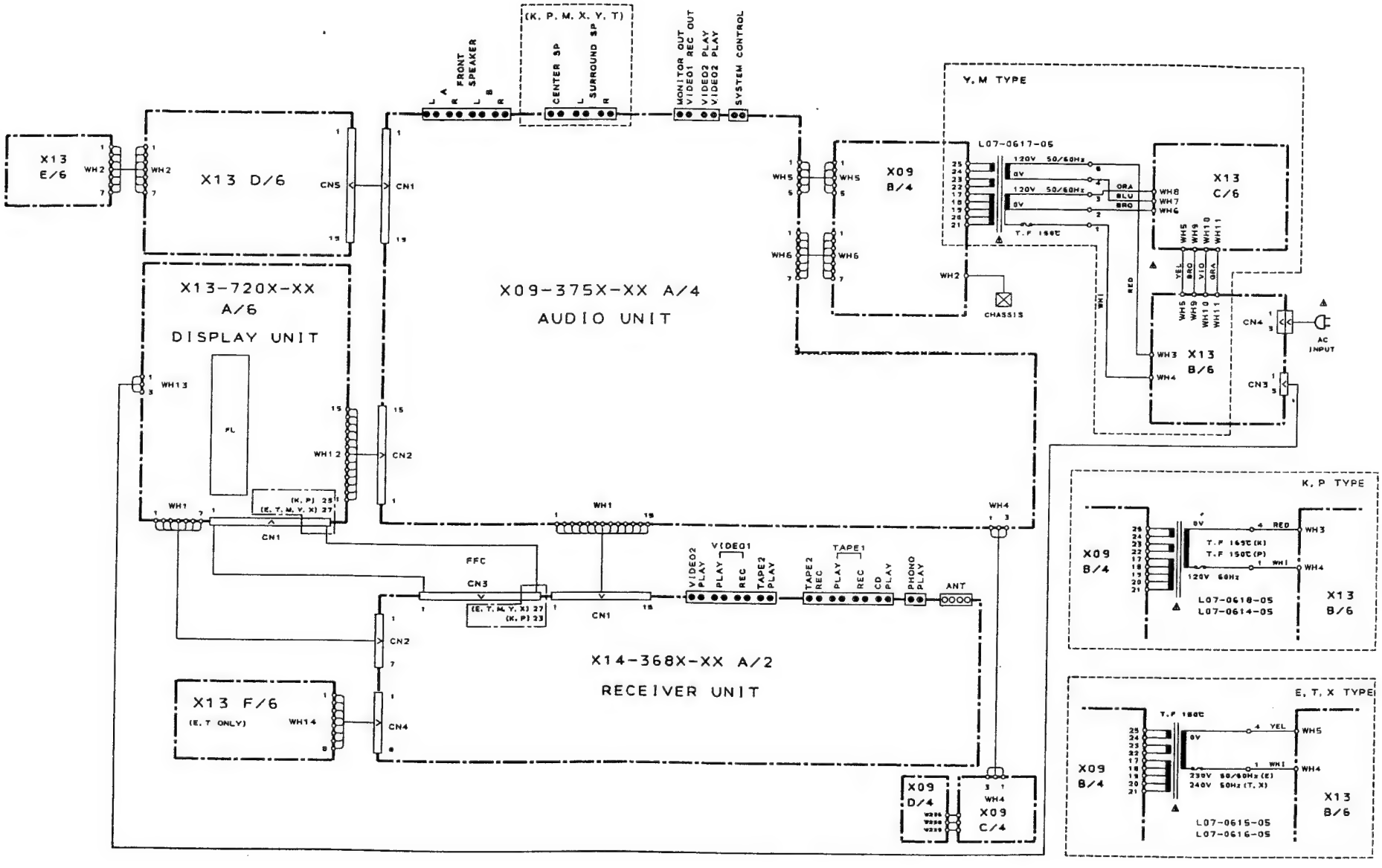
ADJUSTMENT/REGLAGE/ABGLEICH



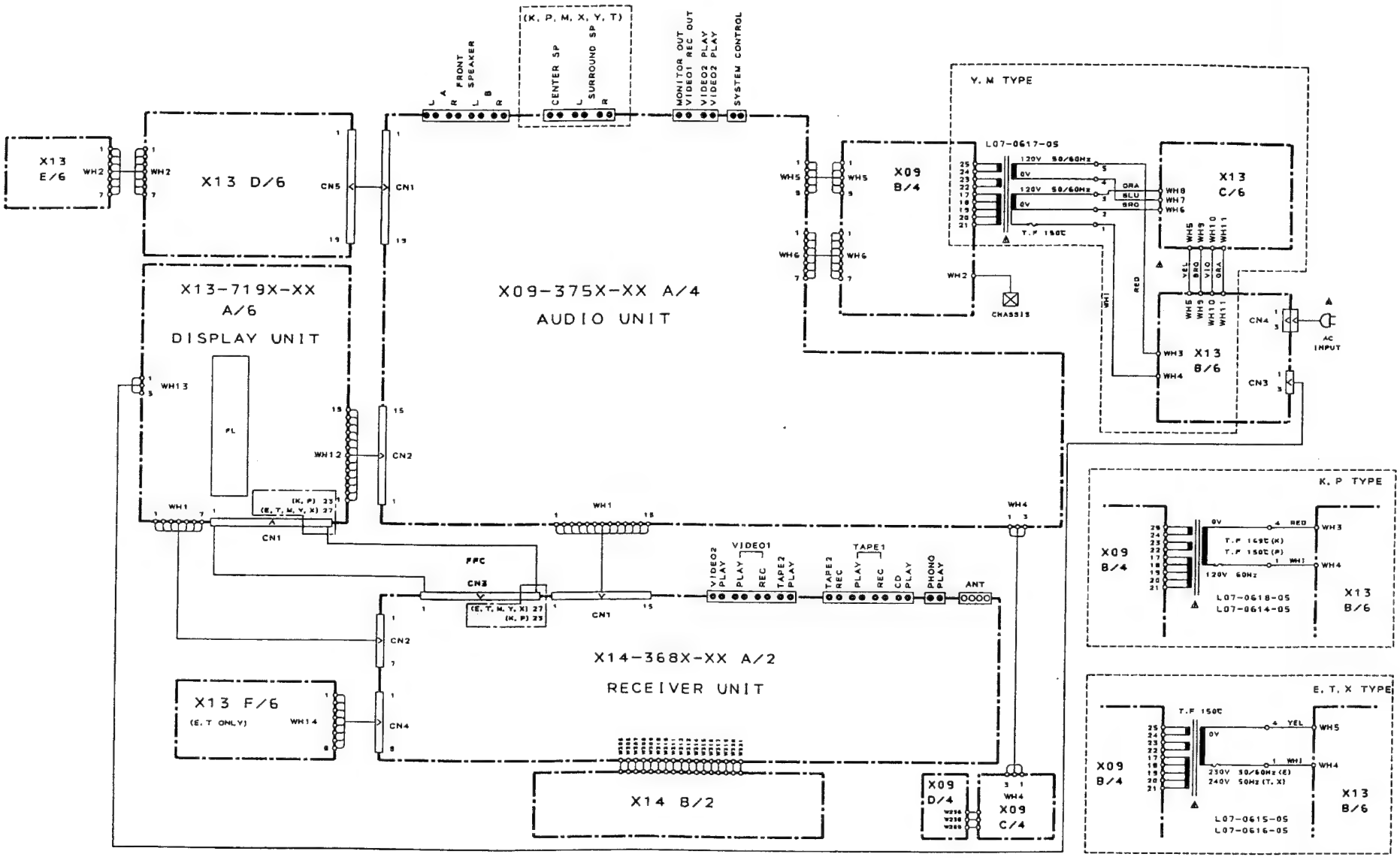
System connections/Raccordements du système/System-Anschlusse



WIRING DIAGRAM (KR-V6050)

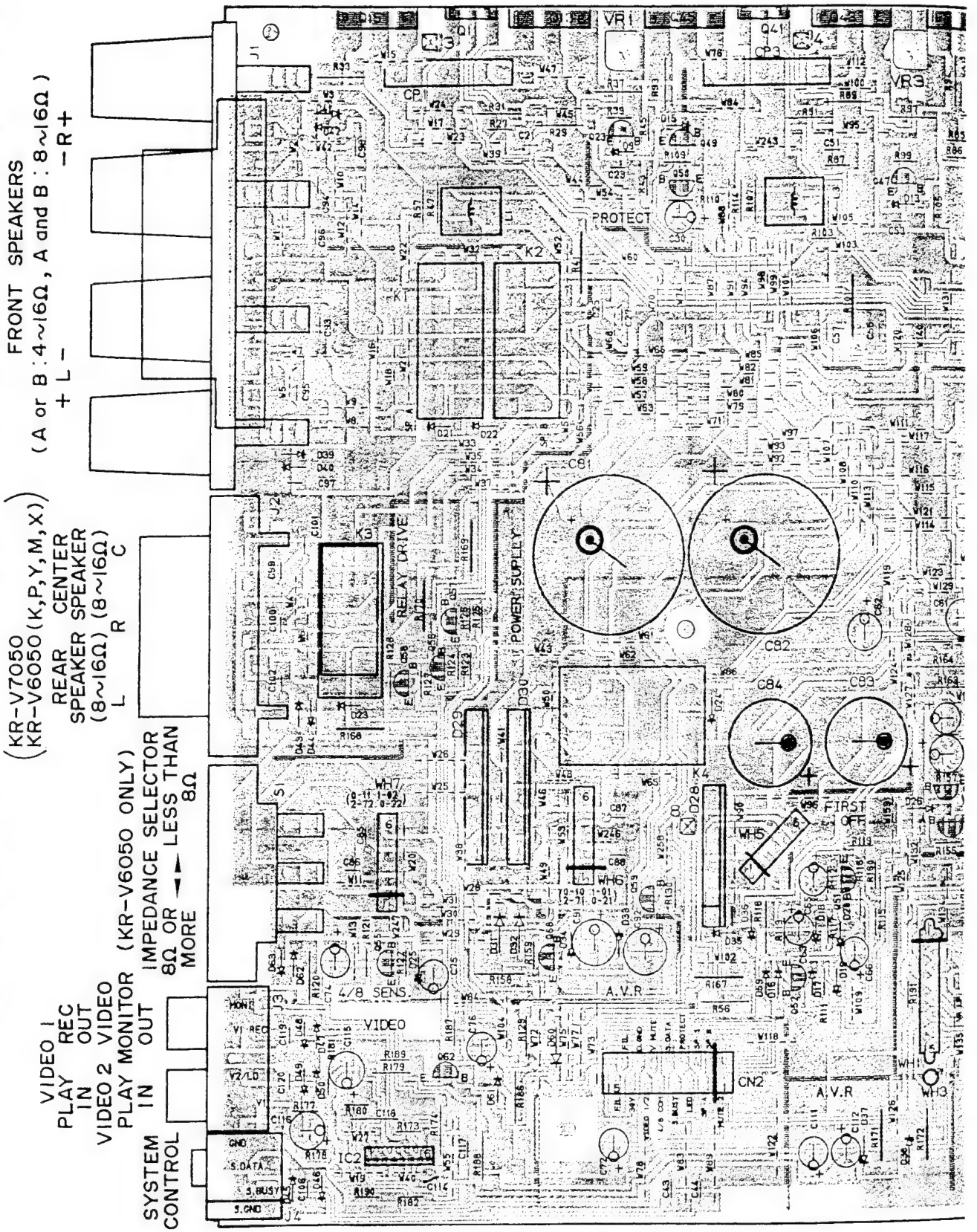


WIRING DIAGRAM (KR-V7050)



PC BOARD (Component side view)

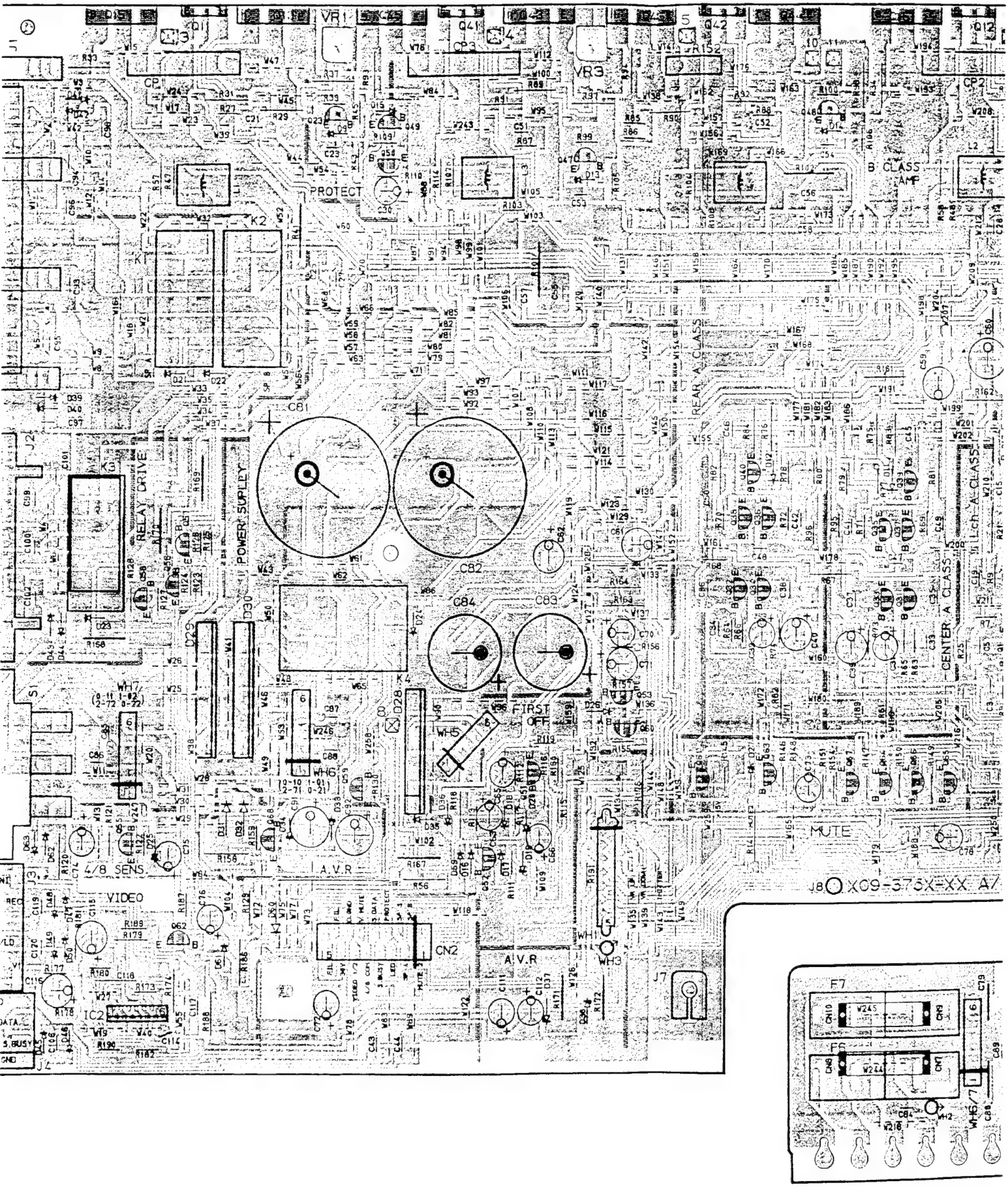
AUDIO UNIT (X09-375X-XX)



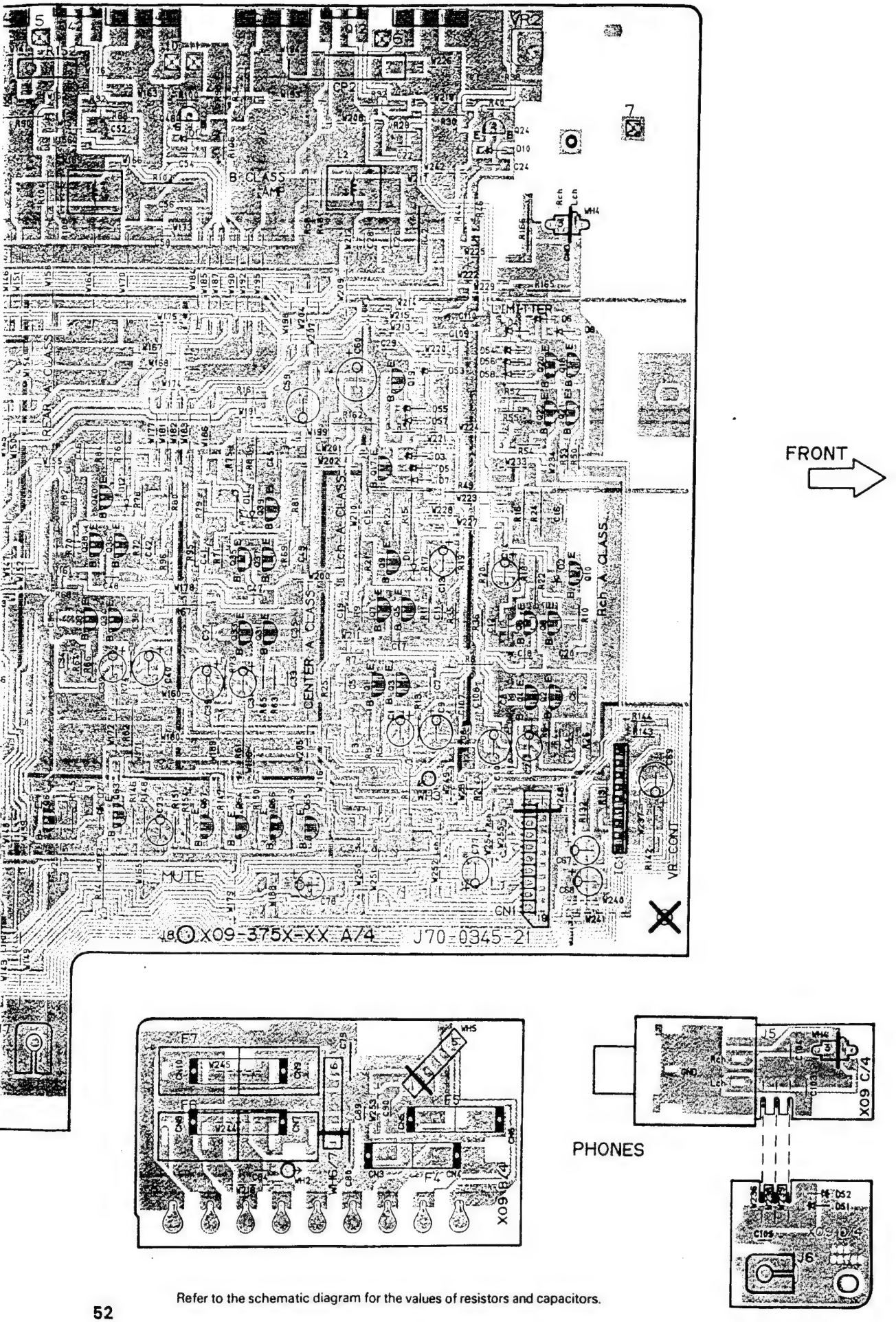
B C D E F G

mponent side view)

X-XX)



Refer to the schematic diagram

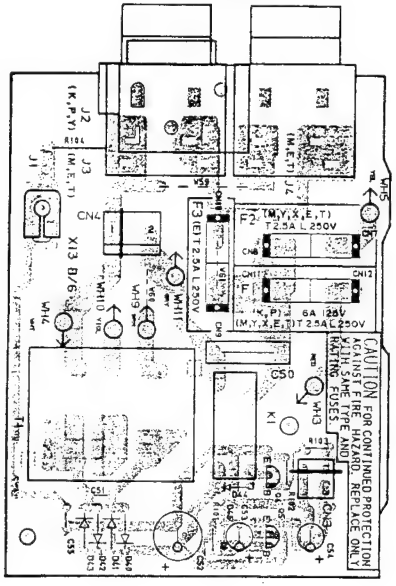


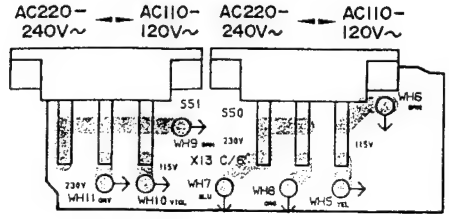
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

ACCESSORY UNIT (X13-720X-XX) : KR-V6050
(X13-719X-XX) : KR-V7050

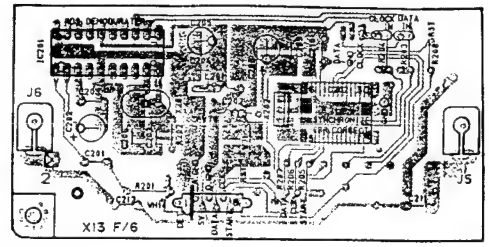
SWITCHED TOTAL 200W MAX.
AC110-120V~/220-240V~
50/60Hz

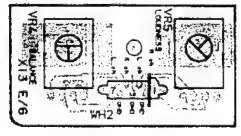


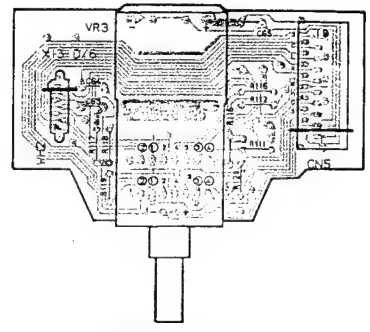


(Y, M TYPE)

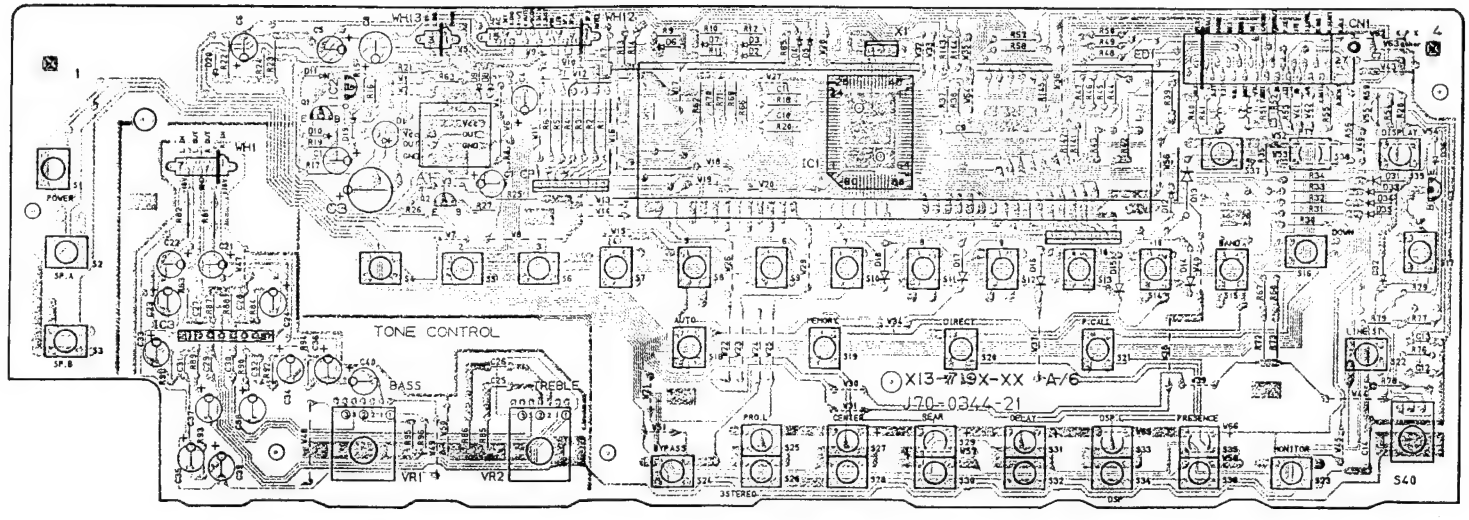
(E, T TYPE)







VOLUME CONTROL



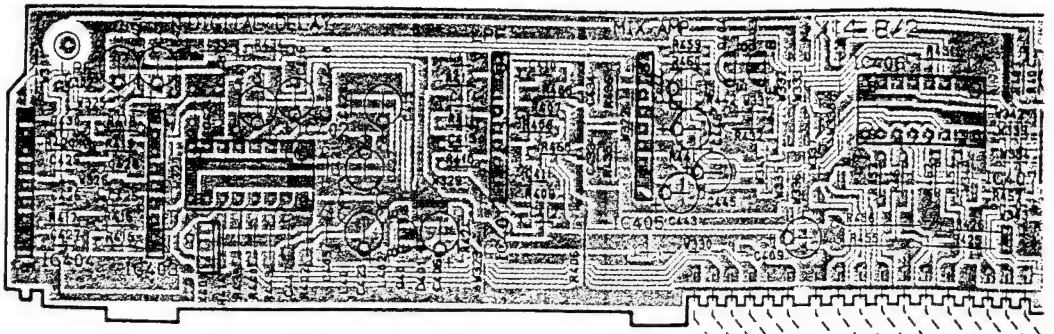
FRONT

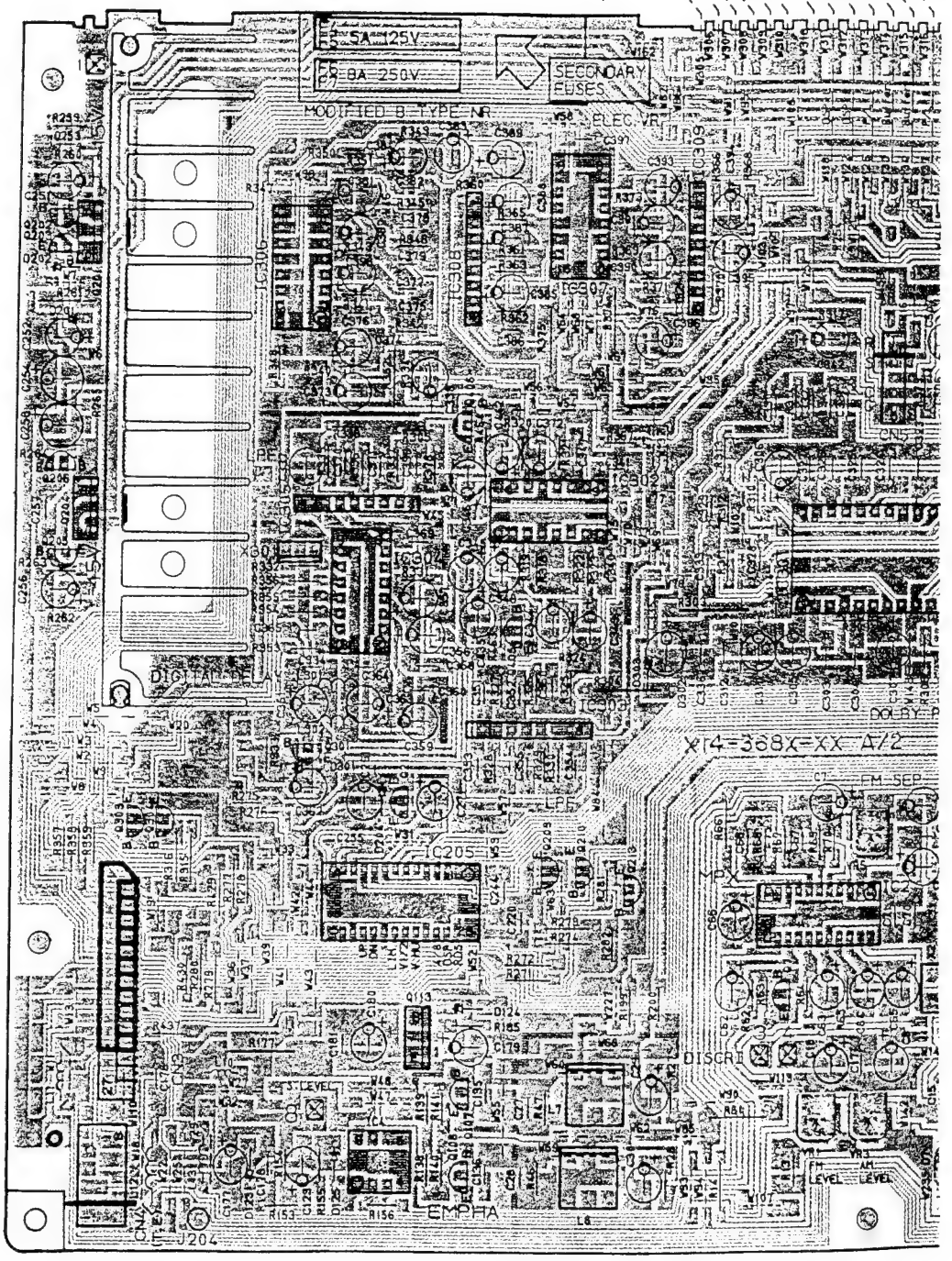
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

RECEIVER UNIT (X14-368X-XX)

(KR-V7050 ONLY)



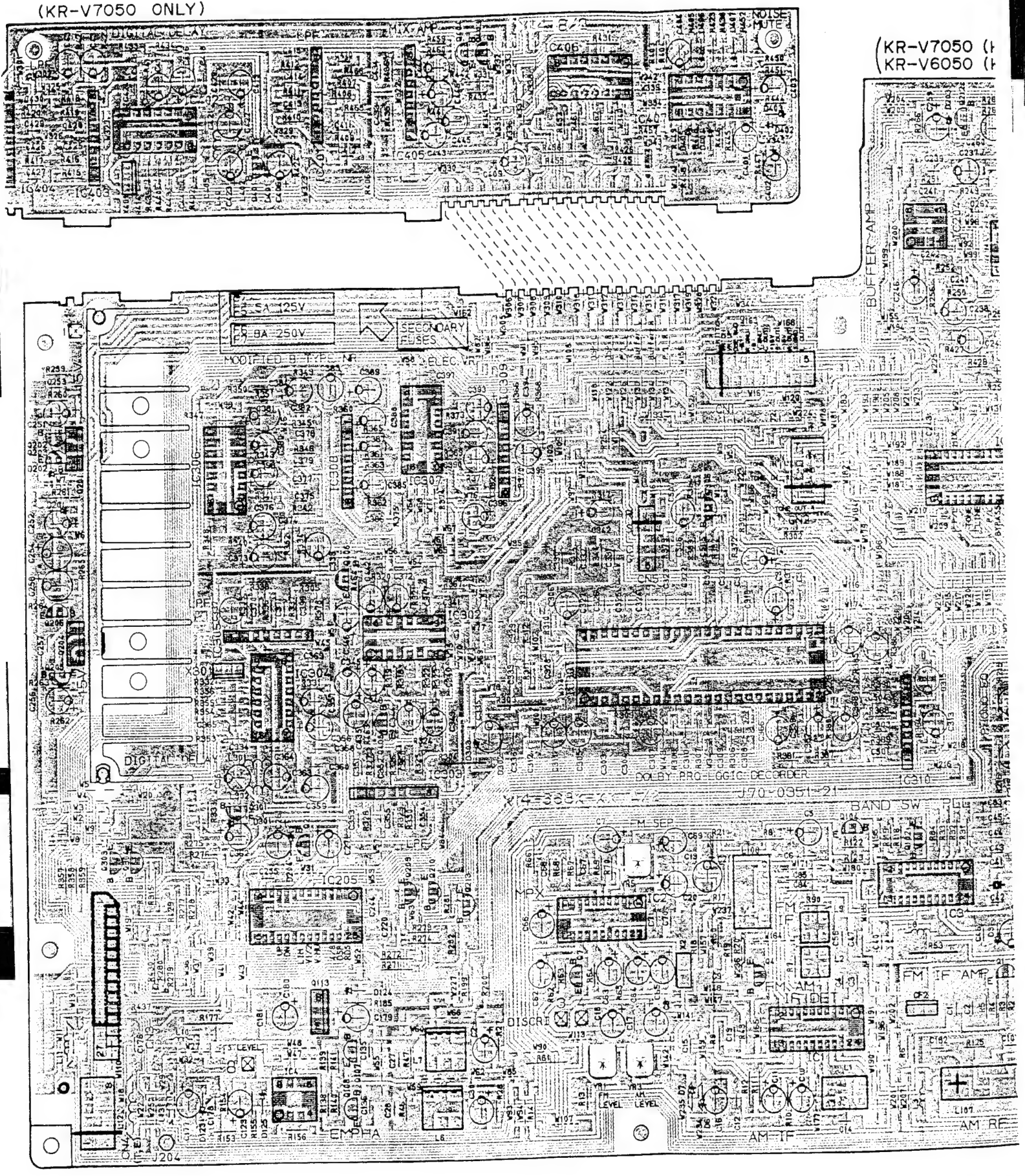


FRONT

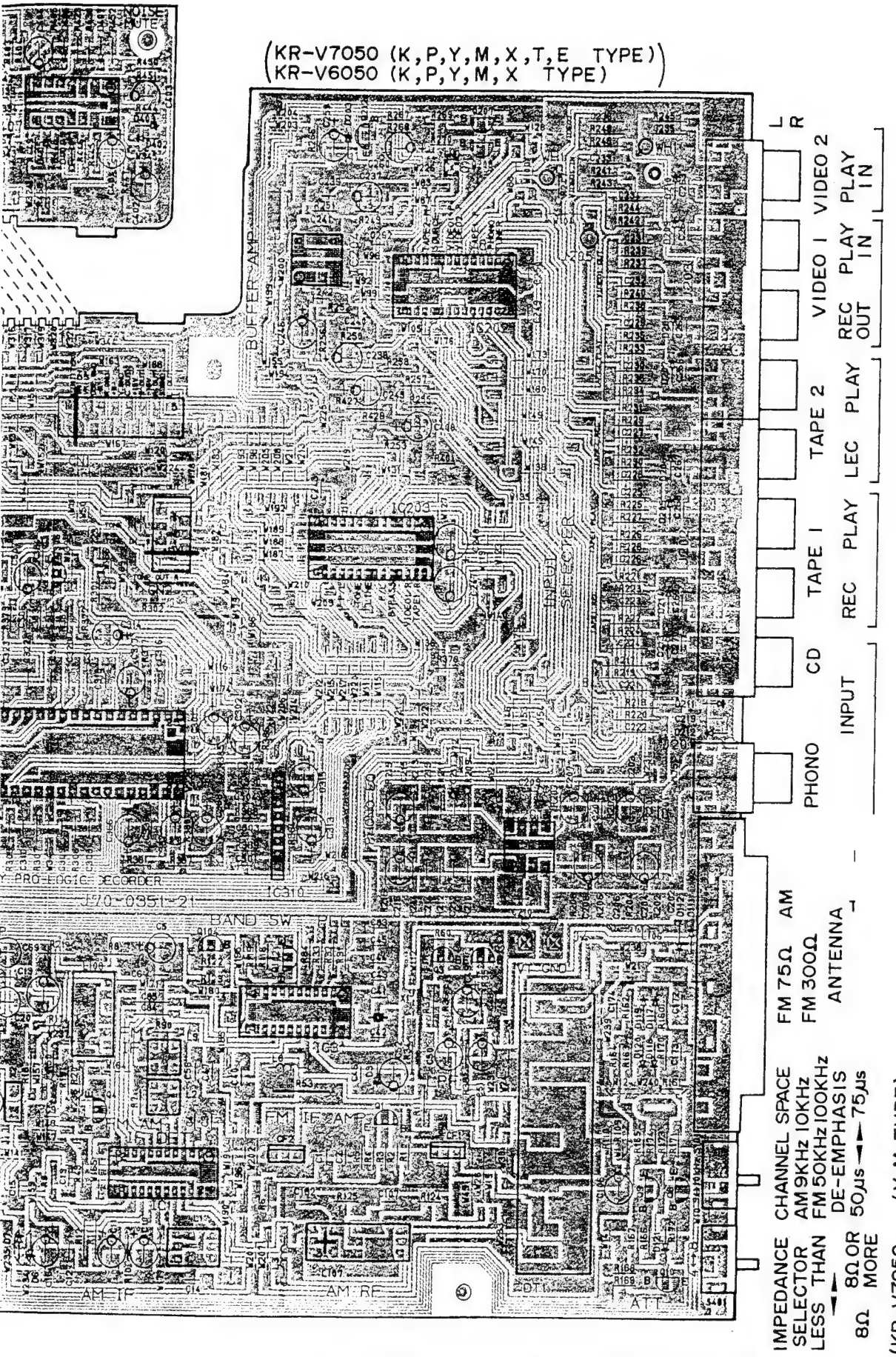
)mponent side view)

I-368X-XX)

(KR-V7050 ONLY)

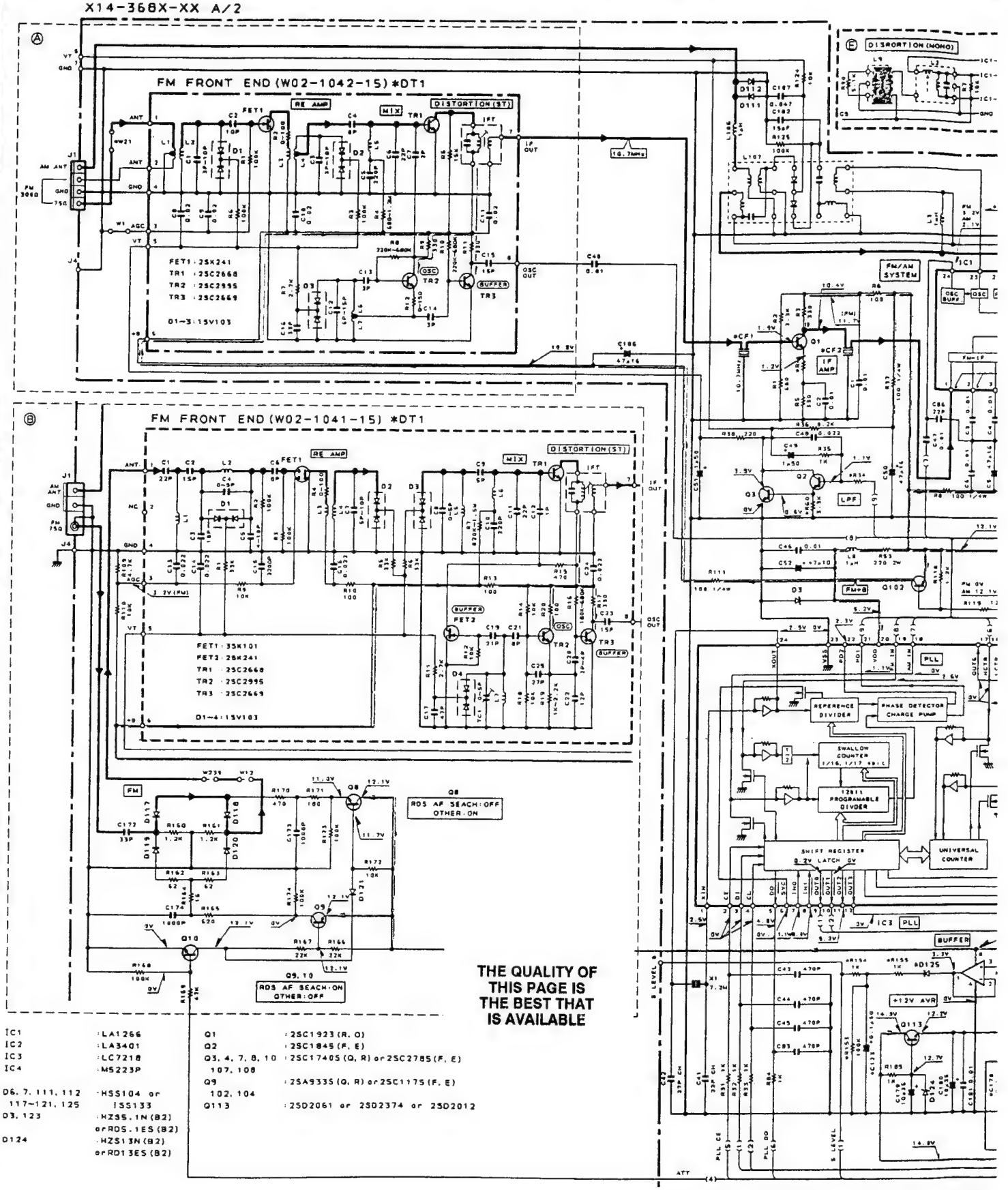


Refer to th



Refer to the schematic diagram for the values of resistors and capacitors.

X14-368X-XX A/2



THE QUALITY OF THIS PAGE IS THE BEST THAT IS AVAILABLE

IC1	: LA1266
IC2	: LA3401
IC3	: LC7218
IC4	: M5223P
D6, 7, 111, 112, 117~121, 125	: HSS104 or 1SS133
D3, 123	: HZS5.1N (B2) or RD5.1ES (B2)
D124	: HZS13N (B2) or RD13ES (B2)

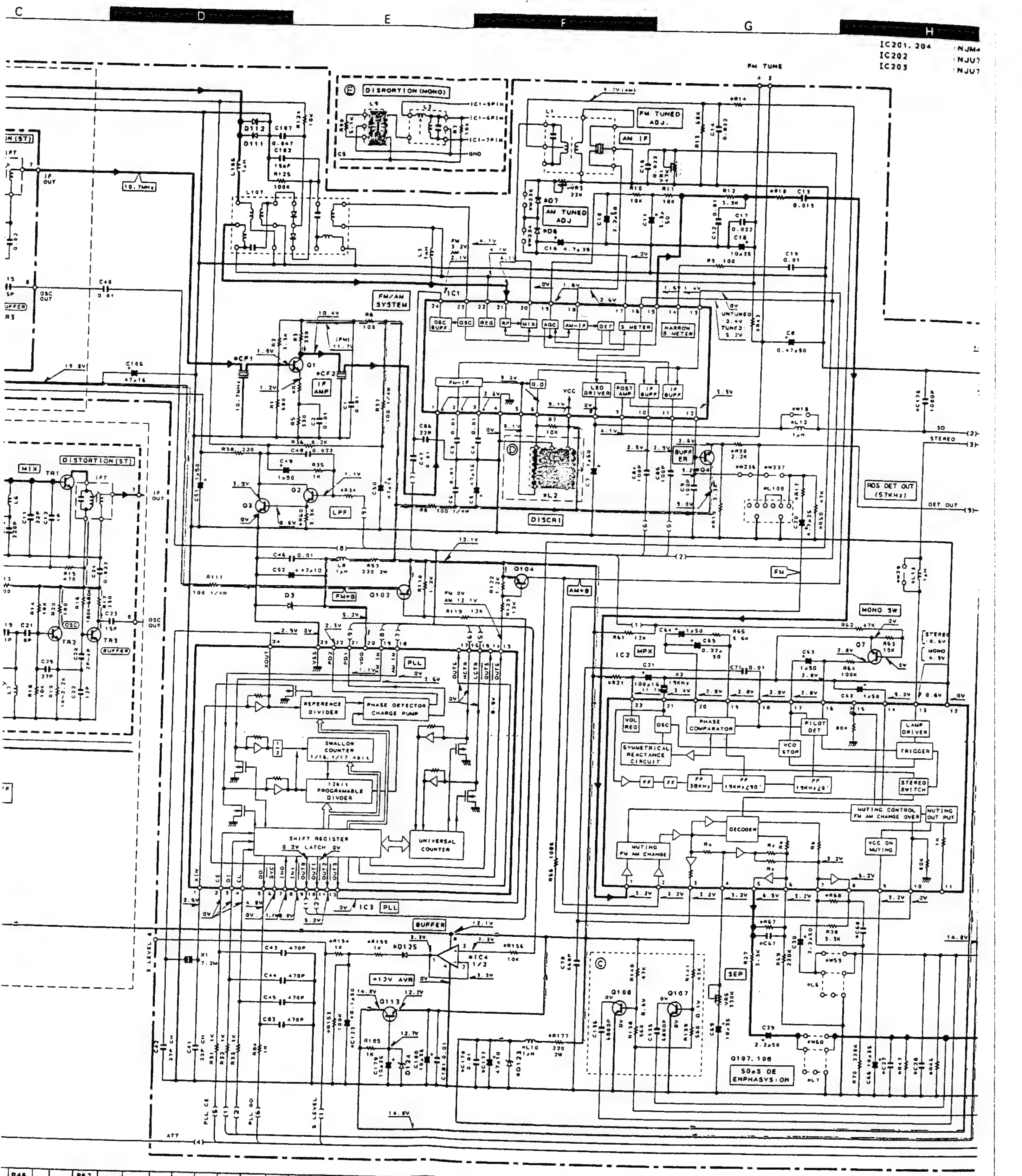
Q1	: 2SC1923 (R, O)
Q2	: 2SC1845 (F, E)
Q3, 4, 7, 8, 10, 107, 108	: 2SC1740S (Q, R) or 2SC2785 (F, E)
Q9, 102, 104	: 2SA933S (Q, R) or 2SC1175 (F, E)
Q113	: 2SD2061 or 2SD2374 or 2SD2012

UNIT	ABB	REF. NO / DISTINATION	A	B	C	D	E	R4	R14	R17	R18	R19	R20	R21	R34	R43	R46 R47	R50	R60	R67 R68	R109	R110	R153	R154	R155	R156	R160 R161	R162 R163	R164	R165	R166 R167	R168	R169	R170	R171	R172
0-11	K, P	USA, CANADA	YES	NO	NO	YES	NO	56	4.7K	15K	12K	NO	NO	68 1/4W	10K	15K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
0-22	Y, M	PX, OTHER AREAS	YES	NO	YES	YES	NO	56	4.7K	15K	12K	NO	NO	68 1/4W	10K	39K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
0-72	X	AUSTRALIA	YES	NO	NO	YES	NO	56	4.7K	15K	12K	NO	NO	68 1/4W	10K	39K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-71, 0-51	T, E	ENGLAND, EUROPE	NO	YES	NO	NO	YES	10	5.6K	12K	10K	3.3K	2.2K	47 1/4W	1K	39K	3.3K	47K	NO	220K	4.7K	10K	100K	1K	1K	10K	1.2K	62	16	620	22K	100K	47K	470	100	10K

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannung hochohmigen Spannungsmesser ken die Meßwerte aufgrund von U zelnen Instrumenten oder Geräten



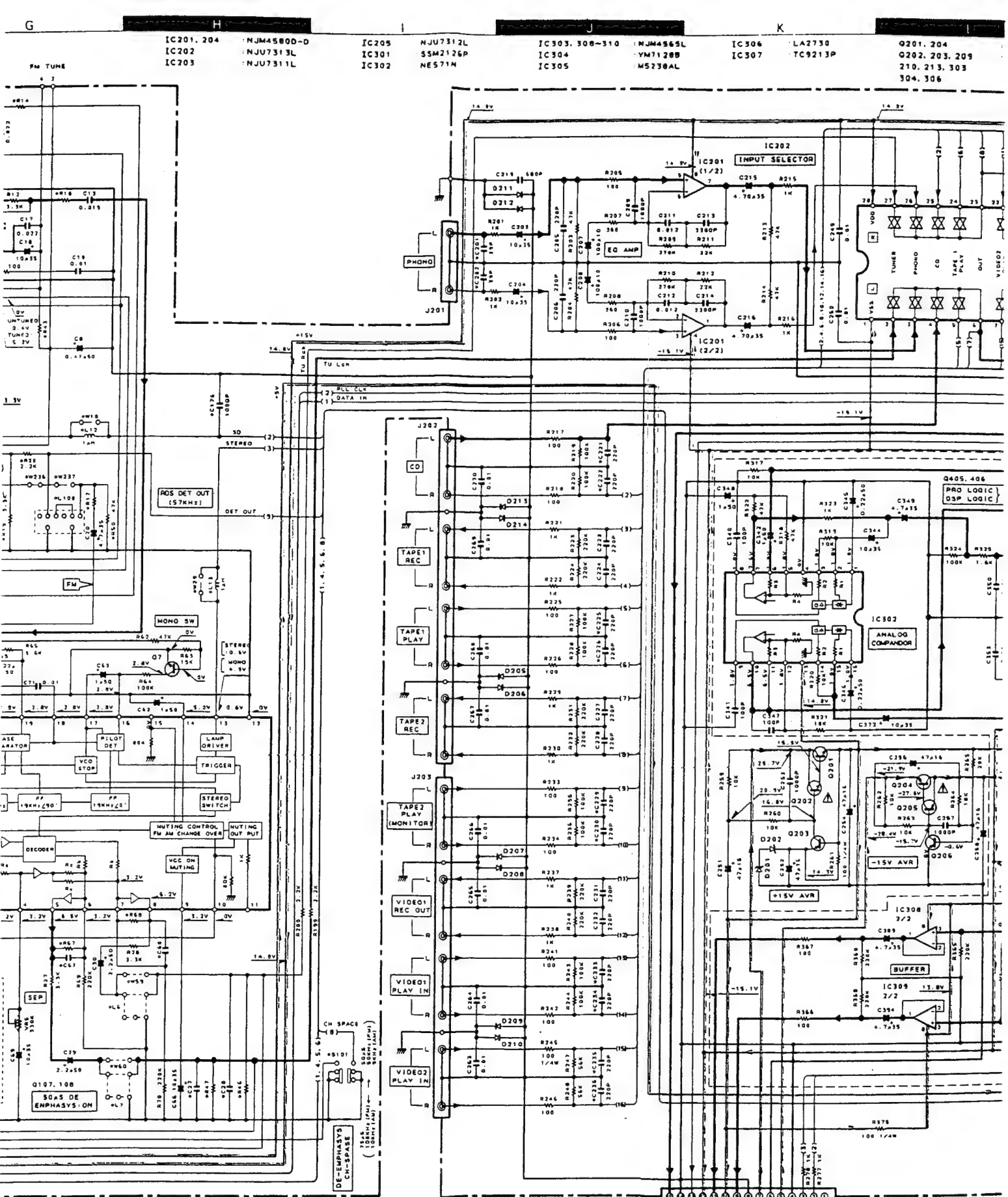
3	R46 R47	R50	R60	R67 R68	R109	R110	R153	R154	R155	R156	R160 R161	R162 R163	R164	R165	R166 R167	R168	R169	R170	R171	R172	R173 R174	R177	C27 C28	C67 C68	C123	C172	C173 C174	C177	C177	C178	L2	L6 L7	L9	L10	L12	L13	L108	Q4, 8 9, 10	Q1
<	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.018	100P	NO	NO	NO	1000P	NO	NO	L30-0439	NO	NO	NO	YES	YES	NO	NO	
<	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015	100P	NO	NO	NO	1000P	NO	NO	L30-0494	NO	NO	NO	YES	YES	NO	NO	
<	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015	100P	NO	NO	NO	1000P	NO	NO	L30-0494	NO	NO	NO	YES	YES	NO	NO	
<	3.3K	47K	NO	220K	4.7K	10K	100K	1K	1K	10K	1.2K	62	15	620	22K	100K	47K	470	180	10K	100K	220 2W	3900P	220P	0.1μ	33P	1000P	NO	47μ10	0.01	L30-0484	YES	L30 0485	YES	W18	W29	YES	YES	

c.c. doivent être mesurées avec un voltmètre à ance. Les valeurs peuvent différer légèrement du tions inhérentes aux appareils et aux instruments dividuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

THE QUALITY OF THIS PAGE IS THE BEST THAT IS AVAILABLE

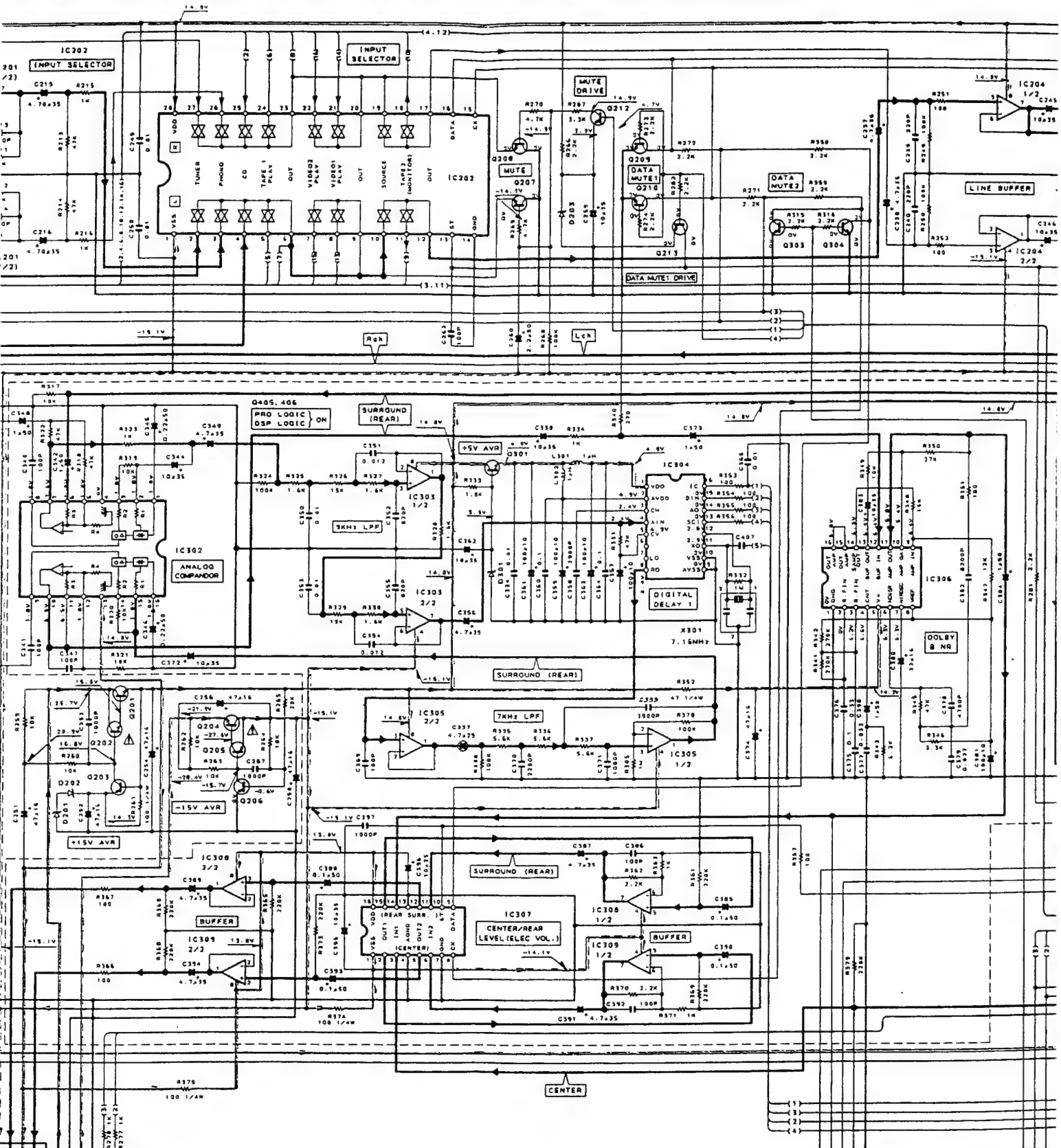


C178	L2	L6 L7	L9	L10	L12	L13	L108	Q4, 8 9, 10	Q107, 108	Q6, 7	Q117~121, 125	D123	CF1, 2	IC4	S101	DT1
NO	L30-0439	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	L72-0531	NO	NO	W02-1042
NO	L30-0494	NO	NO	NO	YES	YES	NO	NO	YES	NO	NO	NO	L72-0531	NO	YES	W02-1042
NO	L30-0494	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	L72-0531	NO	NO	W02-1042
0.01	L30-0484	YES	L30-0488	YES	W18	W29	YES	YES	NO	YES	YES	YES	L72-0536	YES	NO	W02-1041

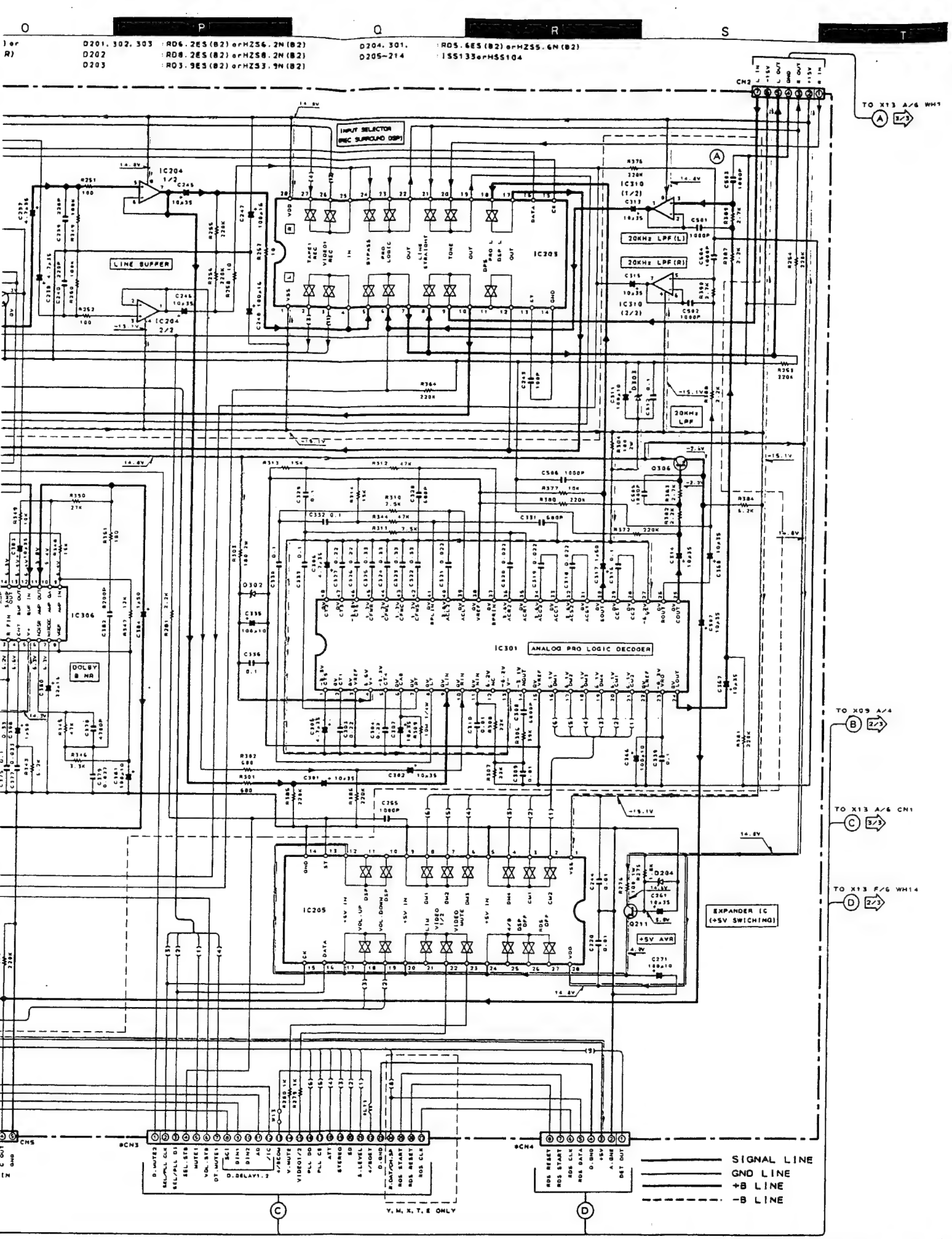
UNIT	ABB	
0-11	K, P	
0-22	Y, M	PX
0-72	X	
2-72	E	
0-51	T	

For continued safety, replace safety critical compo-
with manufacturer's recommended parts (refer to
\ Indicates safety critical components. To reduce the
c shock, leakage-current or resistance measurements
ed out (exposed parts are acceptably insulated from
rcuit) before the appliance is returned to the custom-

K	L	M	N	O
IC306 : LA2730 IC307 : TC9213P	Q201, 204 : 2SD2061 or 2SD2012 or 2SD2374 Q202, 203, 209 : 2SC1740S (Q, R) or 2SC2458 (Y, GR) or 210, 213, 303 : 2SC2785 (F, E) or 2SC3311A (Q, R) 304, 306		Q205, 206, 212 : 2SA933S (Q, R) or 2SA1048 (Y, GR) or 2SA1175 (F, E) or 2SA1309A (Q, R) Q207, 208, : 2SC2878 (B) Q211, 301 : 2SC2003 (L, K)	D201, 302, 303 : RD6.2 D202 : RD8.2 D203 : RD3.9



UNIT	ABB	REF. NO. / DESTINATION	A	C201, 202, 221, 222, 225, 226, 229, 230, 233–236, 241, 242	CN5, Q303, 304, R315 316, 358, 359, 375	CN3	L11	CN4
0–11	K, P	USA, CANADA	YES	NO	YES	23P	YES	NO
0–22	Y, M	PX, OTHER AREAS	YES	NO	YES	27P	YES	NO
0–72	X	AUSTRALIA	YES	NO	YES	27P	YES	NO
2–72	E	EUROPE	NO	YES	NO	27P	NO	YES
0–51	T	ENGLAND	YES	NO	YES	27P	NO	YES

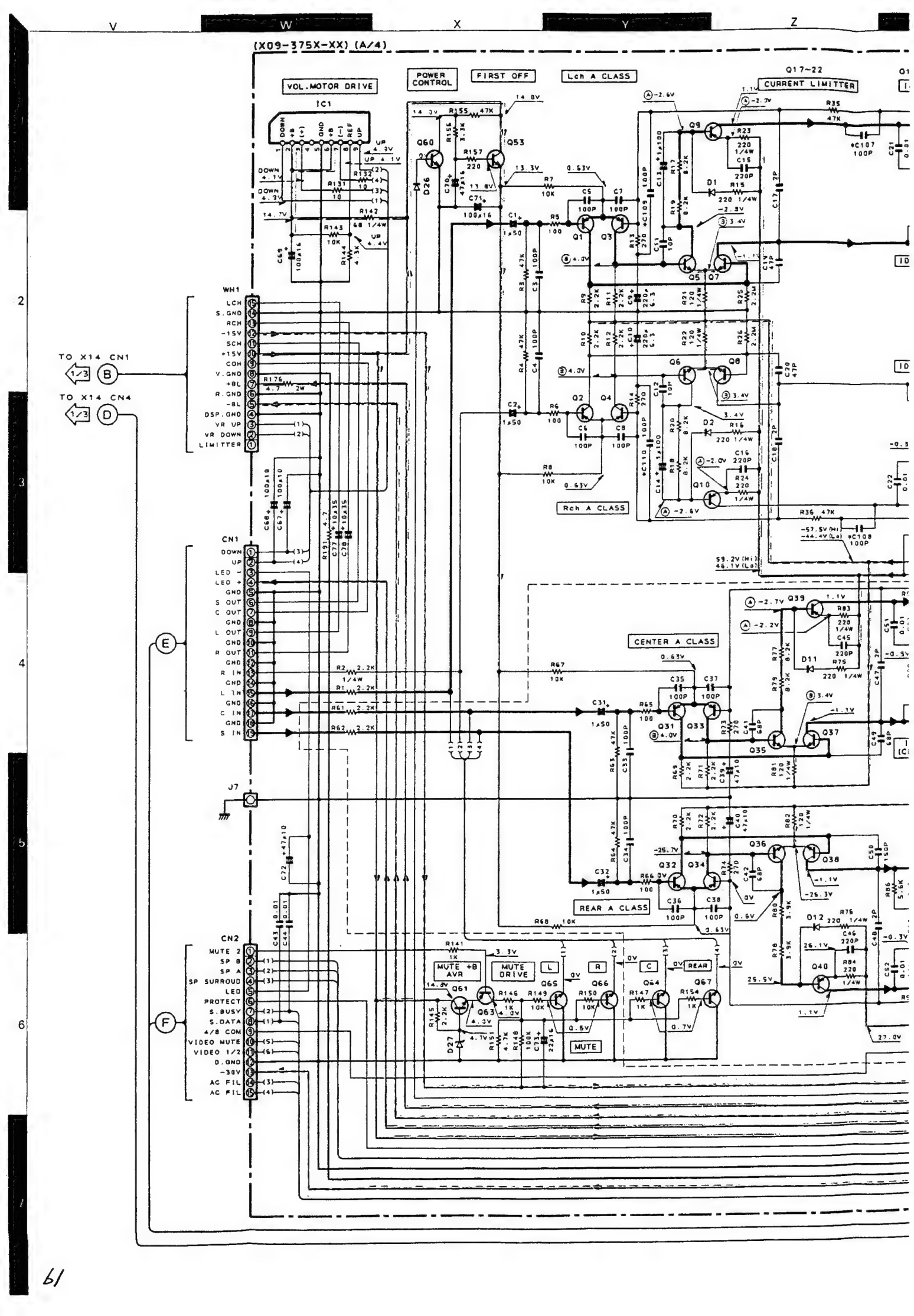


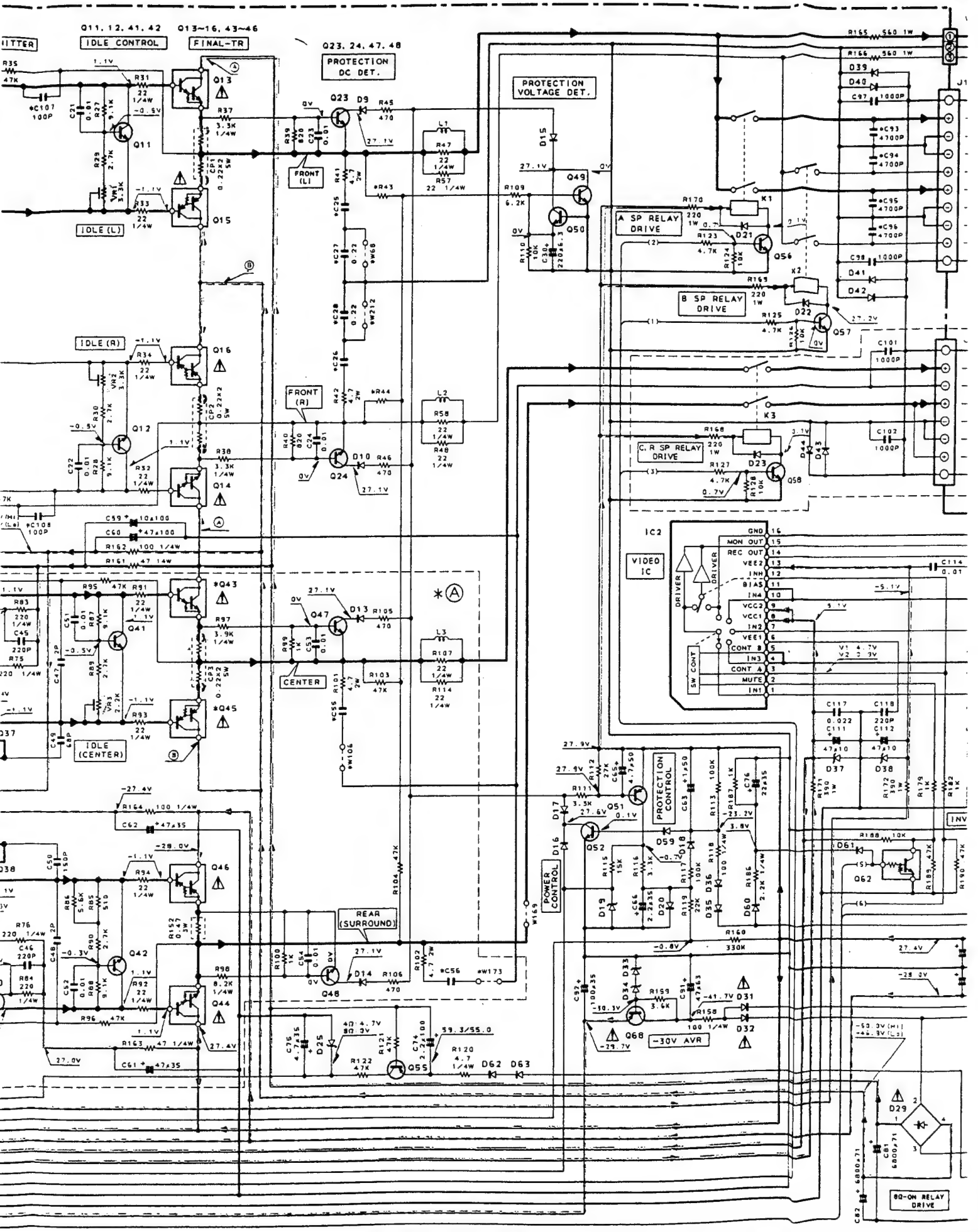
1/3

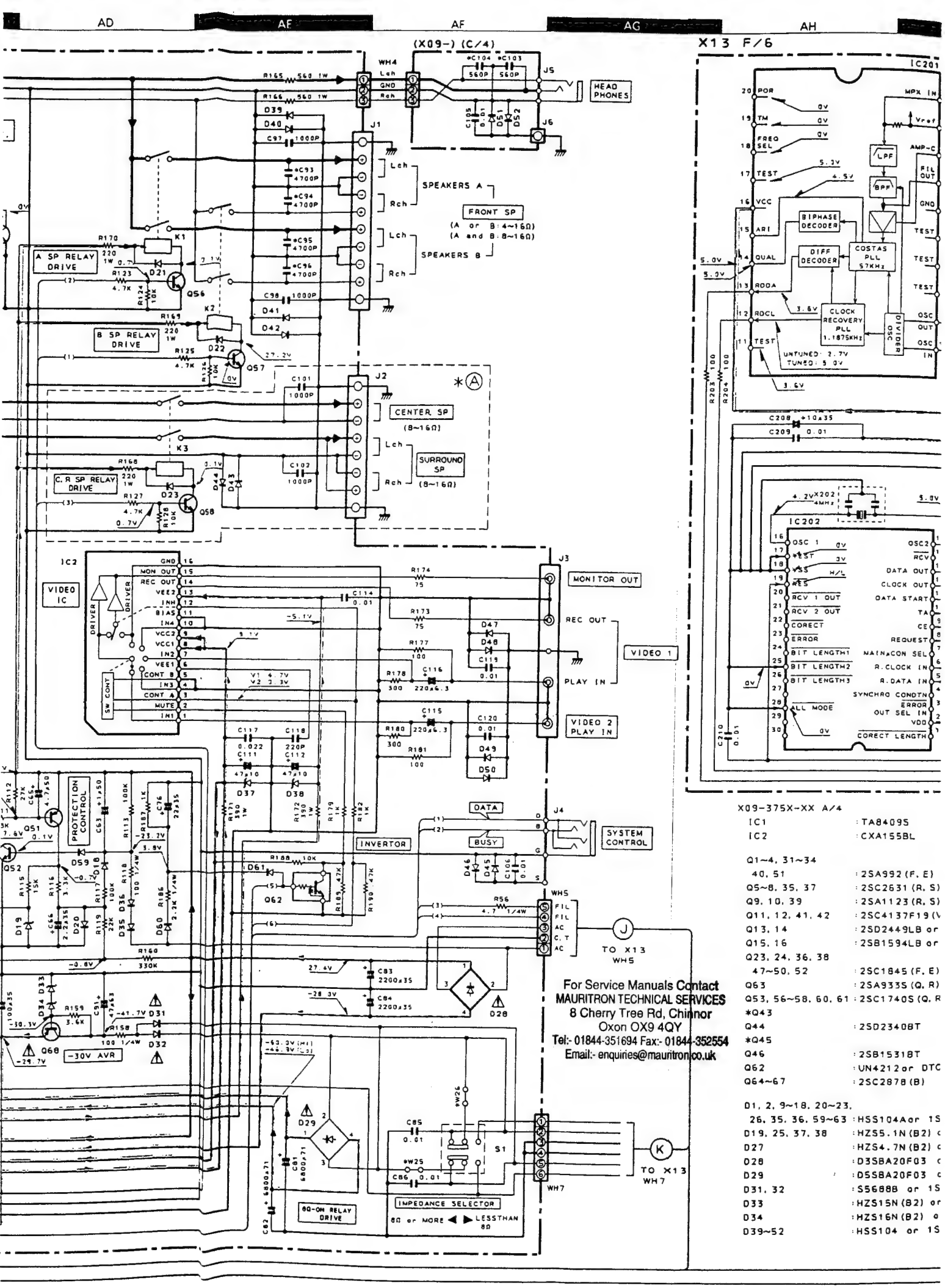
KR-V6050

Y05-2710-10

KENWOOD


(X09-375X-XX) (A/4)
VOL.MOTOR DRIVE
POWER CONTROL
FIRST OFF
Lch A CLASS
Q17~22
CURRENT LIMITTER
Rch A CLASS
CENTER A CLASS
REAR A CLASS
MUTE +B AVR
MUTE DRIVE
MUTE
IC1
WH1
CN1
CN2
J7
TO X14 CN1
TO X14 CN4
LCH
S.GND
RCH
-15V
SCH
+15V
COH
V.GND
+8L
R.GND
-8L
DSP.GND
VR UP
VR DOWN
LIMITTER
DOWN
UP
LED -
LED +
GND
S OUT
C OUT
L OUT
R OUT
R IN
C IN
S IN
MUTE 2
SP B
SP A
SP SURROUD
LED
PROTECT
S.BUSY
S.DATA
4/8 COM
VIDEO MUTE
VIDEO 1/2
D.GND
-30V
AC FIL
AC FIL

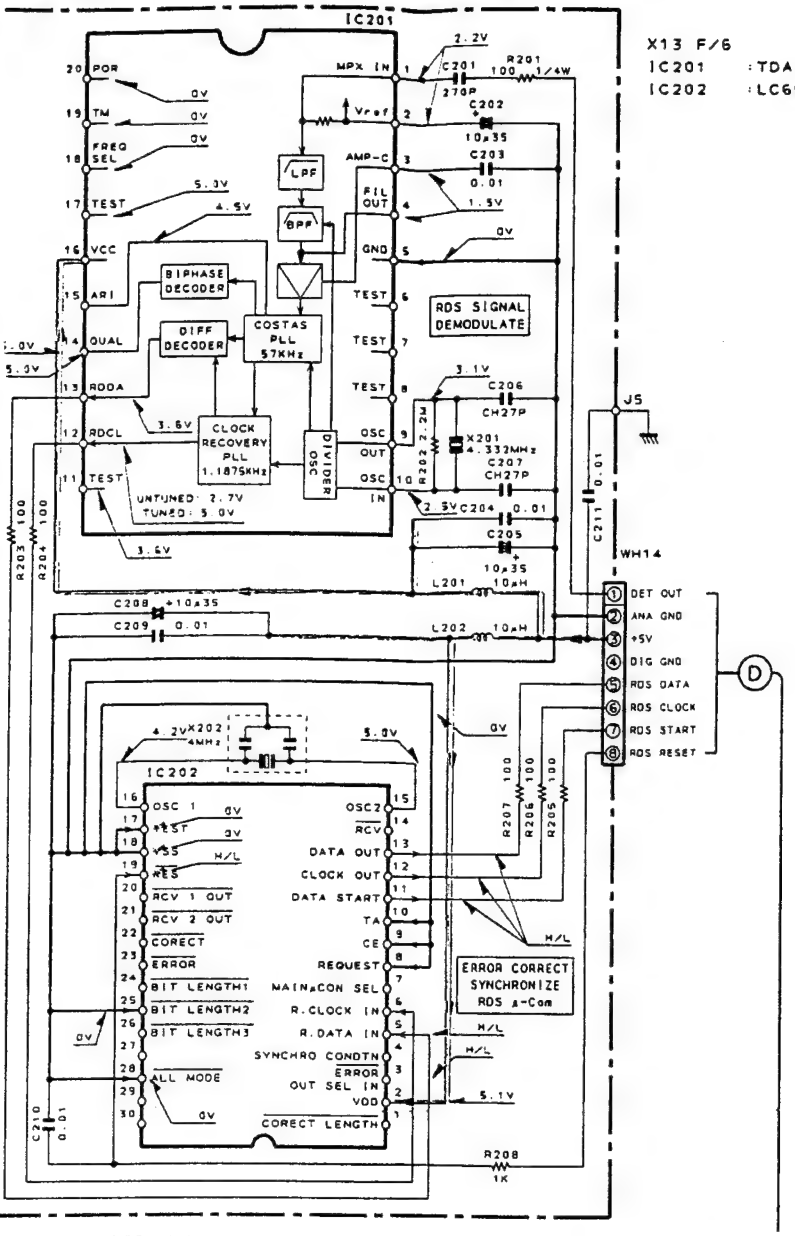




X09-375X-XX A/4

IC1	:TA8409S
IC2	:CXA155BL
Q1~4, 31~34 40, 51	:2SA992(F, E)
Q5~8, 35, 37	:2SC2631(R, S)
Q9, 10, 39	:2SA1123(R, S)
Q11, 12, 41, 42	:2SC4137F19(V
Q13, 14	:2SD2449LB or
Q15, 16	:2SB1594LB or
Q23, 24, 36, 38 47~50, 52	:2SC1845(F, E)
Q63	:2SA933S(Q, R)
Q53, 56~58, 60, 61	:2SC1740S(Q, R
*Q43 Q44	:2SD2340BT
*Q45 Q46	:2SB1531BT
Q62	:UN4212 or DTC
Q64~67	:2SC2878(B)
D1, 2, 9~18, 20~23, 26, 35, 36, 59~63	:HSS104A or 1S
D19, 25, 37, 38	:HZS5.1N(B2)
D27	:HZS4.7N(B2)
D28	:D3SBA20F03
D29	:D5SBA20F03
D31, 32	:S5688B or 1S
D33	:HZS15N(B2) or
D34	:HZS16N(B2)
D39~52	:HSS104 or 1S

X13 F/6



X13 F/6
IC201 :TDA7330A
IC202 :LC6543H-4600

IMPEDANCE SELECTOR:S1

	SURROUND ON (A or B:8Ω or MORE) A or B:LESS THAN 8Ω A and B:8Ω or MORE	A or B:8Ω or MORE
RELAY ON	SPEAKER IMPEDANCE	
K1orK2	A or B SP. (FRONT) 4~6Ω	
K3	CENTER SP. 8~16Ω	
	SURROUND SP. (REAR) 8~16Ω	
K1orK2 K1andK2	(BYPASS ONLY) A or B SP.4~6Ω A and B SP:8~16Ω	(BYPASS ONLY) A or B SP 8~16Ω

IMPEDANCE SELECTOR

	S1	
	SURROUND ON AorB:LESS THAN8Ω(4Ω)	SURROUND OFF AorB:8Ωor MORE(8Ω)
Ⓐ	47.0V	47.0V
Ⓑ	-47.0V	-60.1V

DESTINATION Ref.No.	K 0-11	P 1-02	E 2-72	Y, M, X, T 0-22
Ⓐ	YES	YES	NO	YES
R43, 44	47K	47K	100K	47K
C25, 26, 55, 56	0.1μ	0.1μ	0.22μ	0.1μ
C27, 28	NO	NO	YES	NO
C93, 94, 95, 96 103, 104, 107~110	NO	NO	YES	NO
W68, 212	YES	YES	NO	YES
W106, 173	YES	YES	NO	YES

DESTINATION Ref.No.	K 0-10	P 1-01	T, E 2-71	Y, M, X 0-21
*Q43 2SD2255BT 2SD2255BY*1	YES	NO	NO	NO
2SD2384LB	NO	YES	YES	YES
*Q45 2SB1493BT 2SB1493BT*1	YES	NO	NO	NO
2SB1555LB	NO	YES	YES	YES

X09-375X-XX A/4

IC1	:TA8409S
IC2	:CXA155BL
Q1~4, 31~34	
40, 51	:2SA992(F, E)
Q5~8, 35, 37	:2SC2631(R, S)
Q9, 10, 39	:2SA1123(R, S)
Q11, 12, 41, 42	:2SC4137F19(V, W)
Q13, 14	:2SD2449LB or 2SD2222BT
Q15, 16	:2SB1594LB or 2SB1470BT
Q23, 24, 36, 38	
47~50, 52	:2SC1845(F, E)
Q63	:2SA933S(Q, R) or 2SA1175(F, E)
Q53, 56~58, 60, 61	:2SC1740S(Q, R) or 2SC2785(F, E)
*Q43	
Q44	:2SD2340BT
*Q45	
Q46	:2SB1531BT
Q62	:UN4212or DTC124ES
Q64~67	:2SC2878(B)
D1, 2, 9~18, 20~23, 26, 35, 36, 59~63	:HSS104Aor 1SS131
D19, 25, 37, 38	:HZS5.1N(B2) or RD5.1ES(B2)
D27	:HZS4.7N(B2) or RD4.7ES(B2)
D28	:D3SBA20F03 or RBV-402LFA
D29	:D5SBA20F03 or RBV-602LFA
D31, 32	:S5688B or 1SR139-100
D33	:HZS15N(B2) or RD15ES(B2)
D34	:HZS16N(B2) or RD16ES(B2)
D39~52	:HSS104 or 1SS133

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IC2 TRUTH TABLE

CONTROL SIGNAL				OUT PUT	
CONTA	CONTB	MUTE	1NH	REC OUT	MONI OUT
3PIN	5PIN	2PIN	12PIN	14PIN	15PIN
L	L	L	L	INPUT1(1PIN) FROM VIDEO 2PLAY	
H	L		H	GND	INPUT2(7PIN) FROM VIDEO 1PLAY
*	*	H	L	GND	

0≦L≦1.5V H≧3.5V *:DONT CARE

TO X13 CN5 (E) 3/3
TO X13 WH12 (F) 3/3
TO X13 WH5 (G) 3/3
TO X13 WH7 (H) 3/3

SIGNAL LINE
GND LINE
+B LINE
-B LINE

DC voltages are as mea
ter. Values may vary sl
vidual instruments or/ar

Las tensions c.c. doive
haute impédance. Les v
fait des variations inhér
de mesure individuels.

Die angegebenen Gleic
hochohmigen Spannun
ken die Meßwerte aufgr
seinen Instrumenten ode

CAUTION: For continu
nents only with manuf
parts list. ⚠ Indicates
risk of electric shock, ser
shall be carried out (exp
the supply circuit) before
er.

31

A or B : 8Ω or MORE
IMPEDANCE
(BYPASS ONLY) A or B SP 8~16Ω

OUND OFF : 8Ωor MORE (8Ω)
47.0V
-60.1V

E 2-72	Y, M, X, T 0-22
NO	YES
100K	47K
1.22s	0.1s
YES	NO
YES	NO
NO	YES
NO	YES

	T, E 2-71	Y, M, X 0-21
	NO	NO
	YES	YES
	NO	NO
	YES	YES

UT
ION) OUT
15PIN
IN) FROM PLAY
2 (7PIN)
IDEO (PLAY
ID

CARE

2SA1123
2SA1534A
2SA992
2SC1845
2SC1923
2SC2003
2SC2631
2SC2878
2SC3940A

DTC124ES
2SA1048
2SA933S
2SC1740S
2SC2458

UN4212
2SA1309A
2SC3311A

UPC4574C

TA8409S

M5223P
NJM4580D-D

PST529C

NJM4565L

2SB1493BT
2SB1493BT*1
2SB1531BT
2SD2255BT
2SD2255BT*1
2SD2340BT

2SB1470BT
2SD2222BT

2SD2012
2SD2374

LA2730

TDA7330A

M5238AL

LA3401

2SA1175
2SC2785

2SD2061

NE571N

TC9213P
TC9215P

YM7128B

NJU7311L
NJU7312L
NJU7313L

SSM2126P

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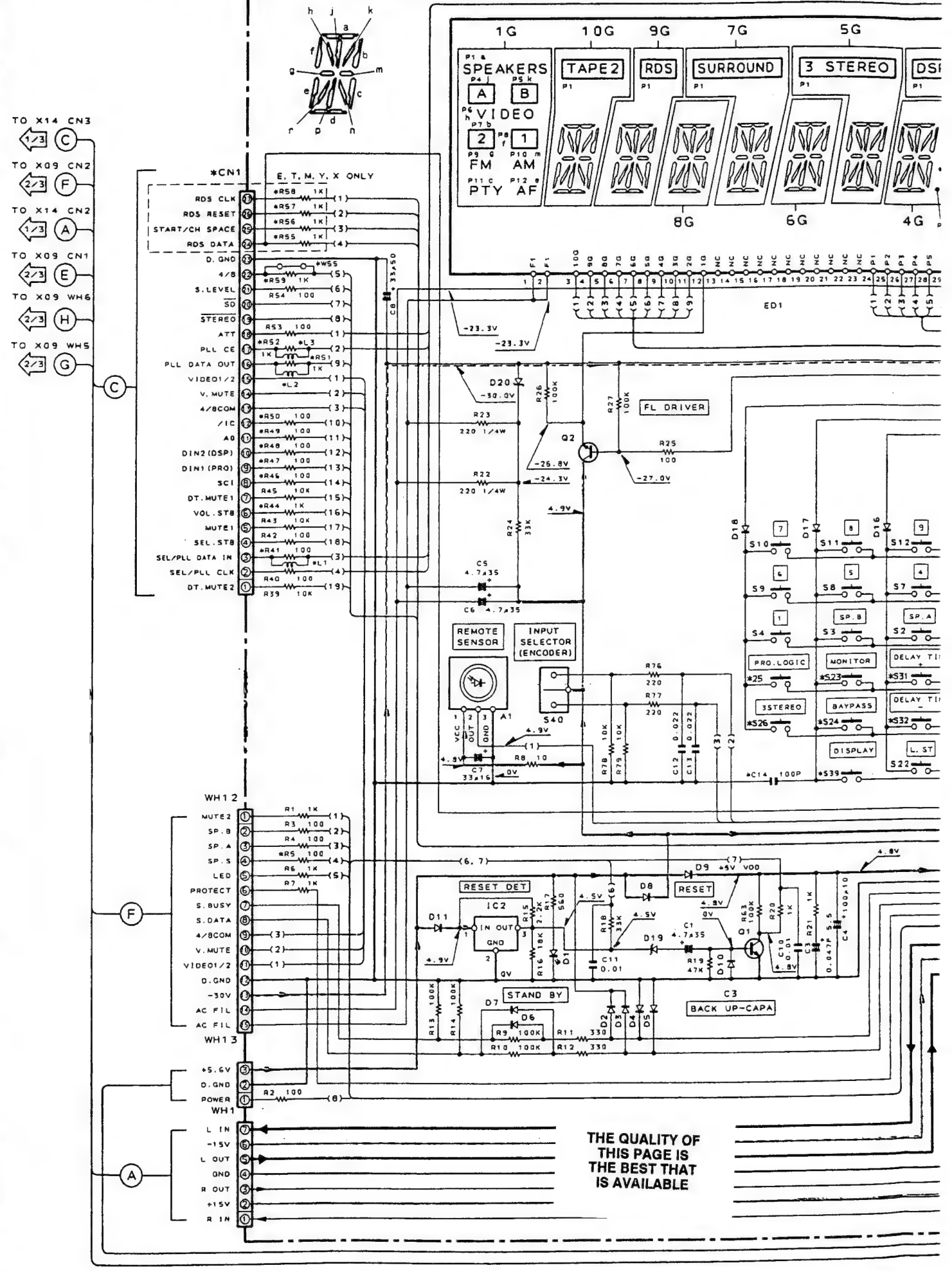
INE

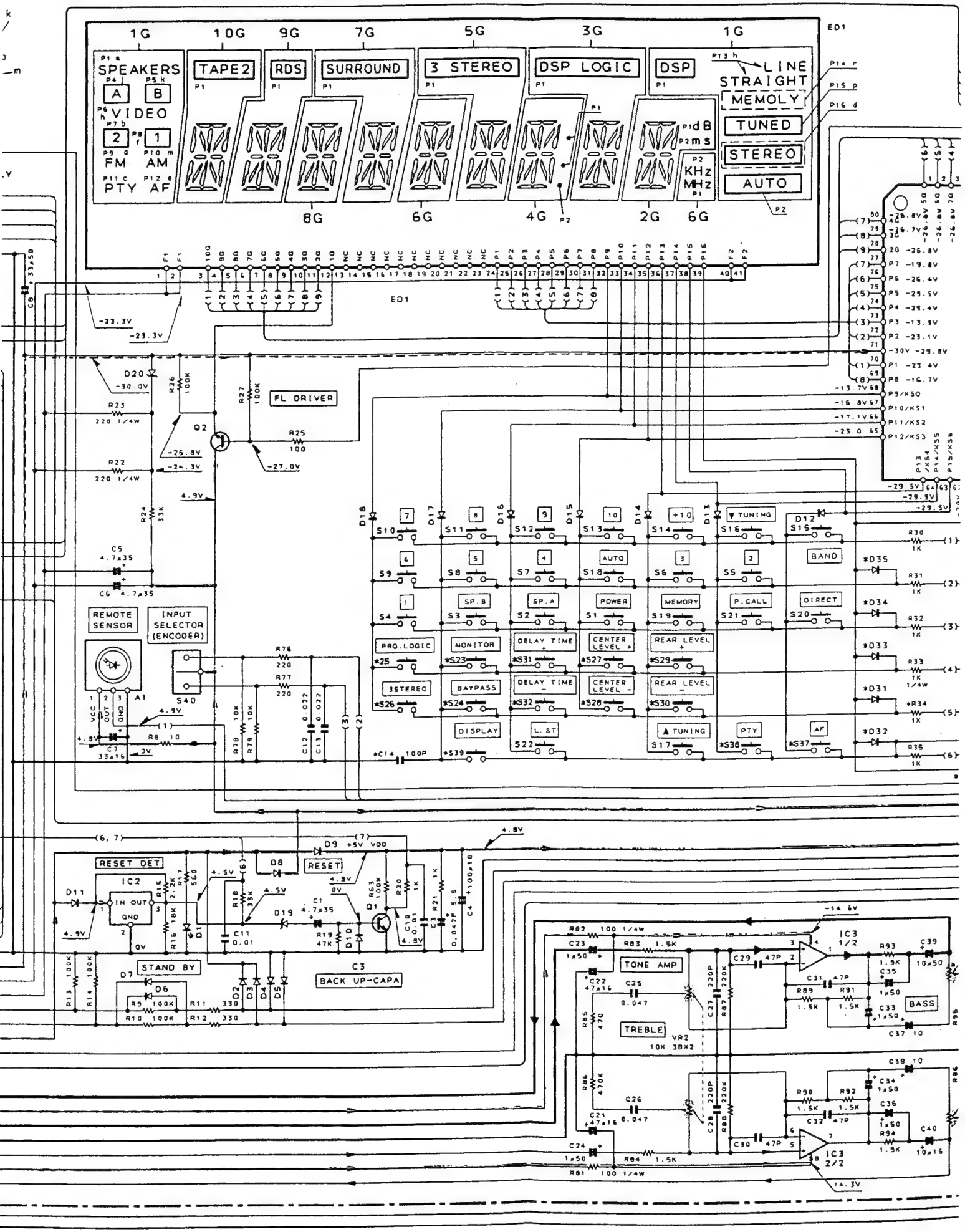
KR-V6050

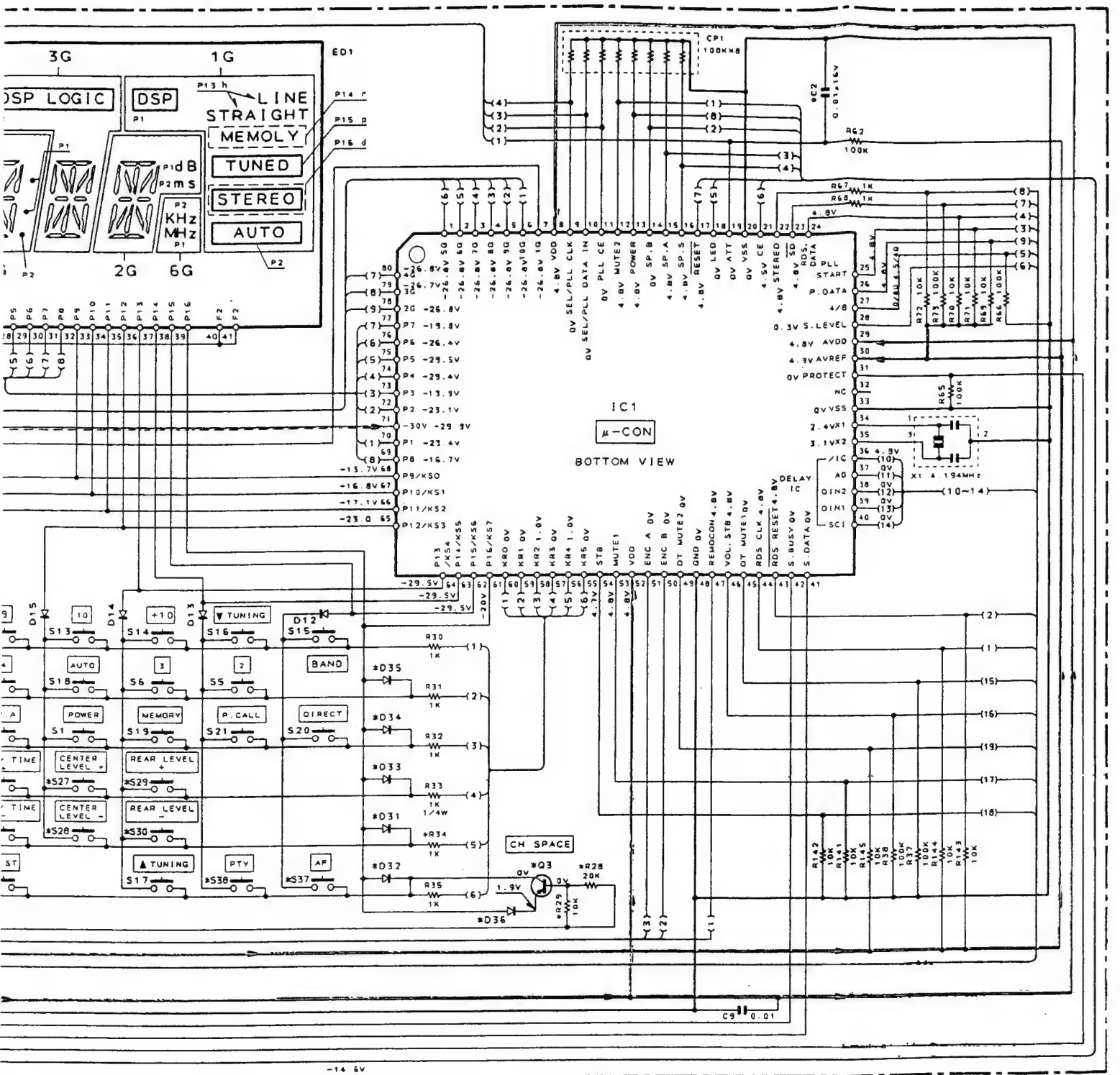
KENWOOD

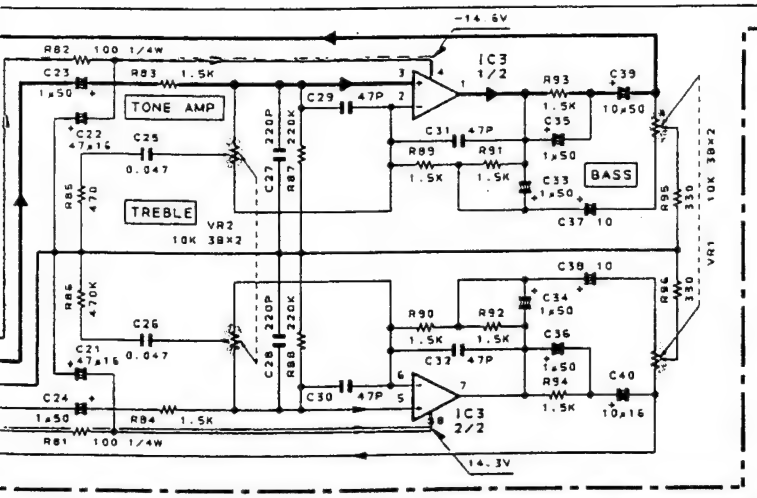
Y05-2710-10

X13-720X-XX A/6




1G 10G 9G 7G 5G 3G 1G
SPEAKERS
A B
VIDEO
2 1
FM AM
PTY AF
TAPE2
RDS
SURROUND
3 STEREO
DSP LOGIC
DSP
LINE STRAIGHT
MEMOLY
TUNED
STEREO
AUTO
dB ms
KHz MHz
8G 6G 4G 2G 6G
ED1
FL DRIVER
REMOTE SENSOR
INPUT SELECTOR (ENCODER)
S40
RESET DET
IC2
STAND BY
BACK UP-CAPA
TONE AMP
TREBLE
VR2 10K 38×2
IC3 1/2
IC3 2/2
BASS
TUNING
BAND
DIRECT
POWER
MEMORY
P.CALL
SP.A
SP.B
AUTO
MONITOR
BYPASS
DISPLAY
PRO.LOGIC
3STEREO
DELAY TIME +
DELAY TIME -
CENTER LEVEL +
CENTER LEVEL -
REAR LEVEL +
REAR LEVEL -
L.ST
PTY
AF



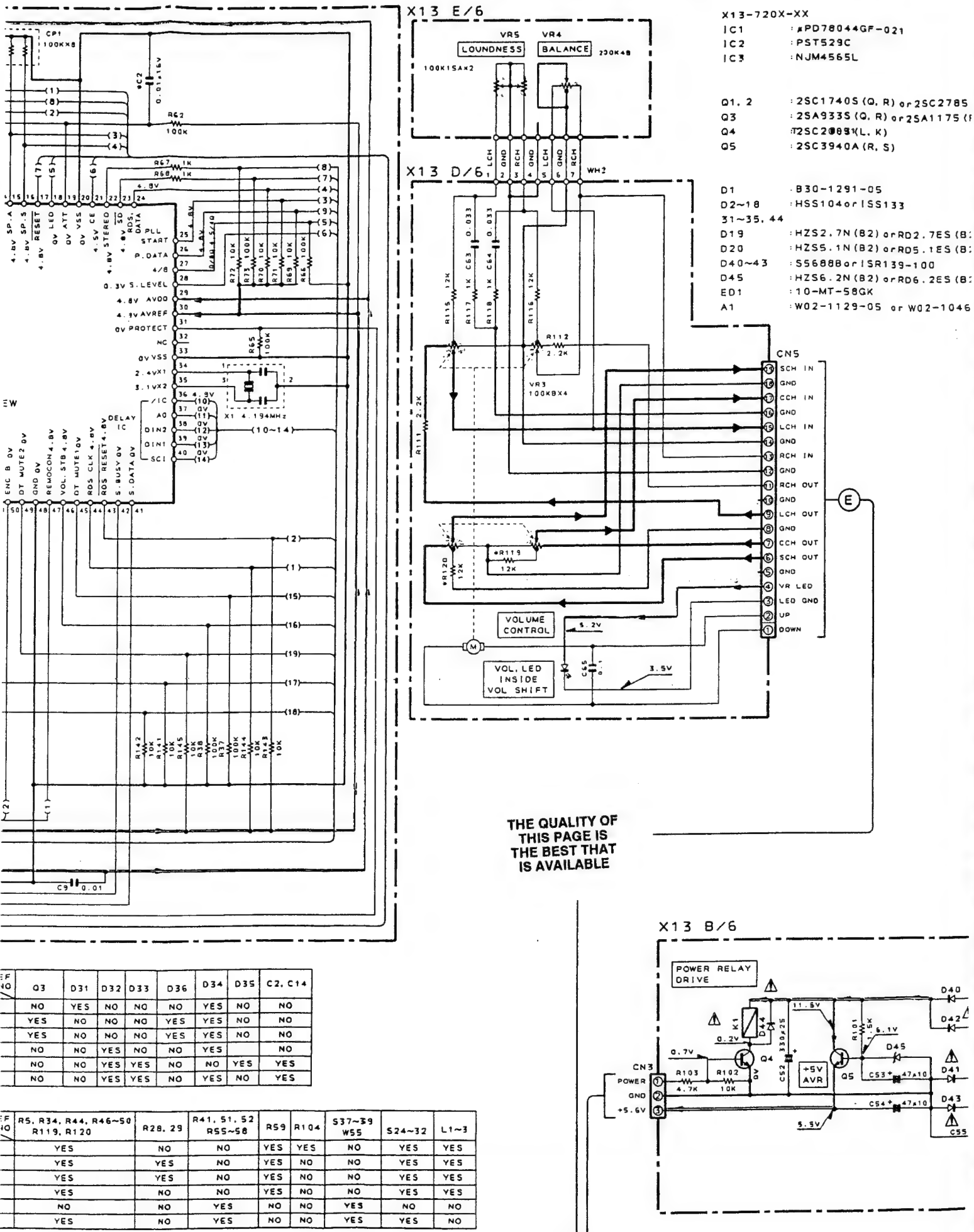


X13 A/6

ABB	UNIT \ REF NO	Q3	D31	D32	D33	D36	D34	D35	C2, C14
K, P	0-10	NO	YES	NO	NO	NO	YES	NO	NO
M	0-21	YES	NO	NO	NO	YES	YES	NO	NO
Y	2-91	YES	NO	NO	NO	YES	YES	NO	NO
X	0-71	NO	NO	YES	NO	NO	YES		NO
E	2-71	NO	NO	YES	YES	NO	NO	YES	YES
T	0-51	NO	NO	YES	YES	NO	YES	NO	YES

X13 A/6

ABB	UNIT \ REF NO	R5, R34, R44, R46~50 R119, R120	R28, 29	R41, 51, 52 R55~58	R59	R104	S37~39 W55	S
K, P	0-10	YES	NO	NO	YES	YES	NO	
M	0-21	YES	YES	NO	YES	NO	NO	
Y	2-91	YES	YES	NO	YES	NO	NO	
X	0-71	YES	NO	NO	YES	NO	NO	
E	2-71	NO	NO	YES	NO	NO	YES	
T	0-51	YES	NO	YES	NO	NO	YES	



X13-720X-XX

IC1	:μPD78044GF-021
IC2	:PST529C
IC3	:NJM4565L
Q1, 2	:2SC1740S (Q, R) or 2SC2785
Q3	:2SA933S (Q, R) or 2SA1175 (F
Q4	:2SC2883 (L, K)
Q5	:2SC3940A (R, S)
D1	:B30-1291-05
D2~18	:HSS104 or ISS133
31~35, 44	
D19	:HZS2.7N (B2) or RD2.7ES (B2
D20	:HZS5.1N (B2) or RD5.1ES (B2
D40~43	:S5688B or ISR139-100
D45	:HZS6.2N (B2) or RD6.2ES (B2
ED1	:10-MT-58GK
A1	:W02-1129-05 or W02-1046

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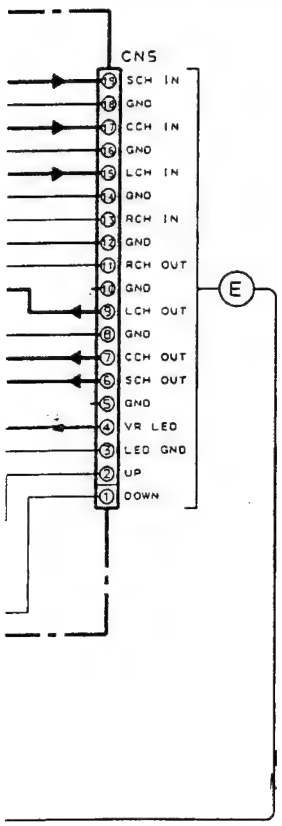
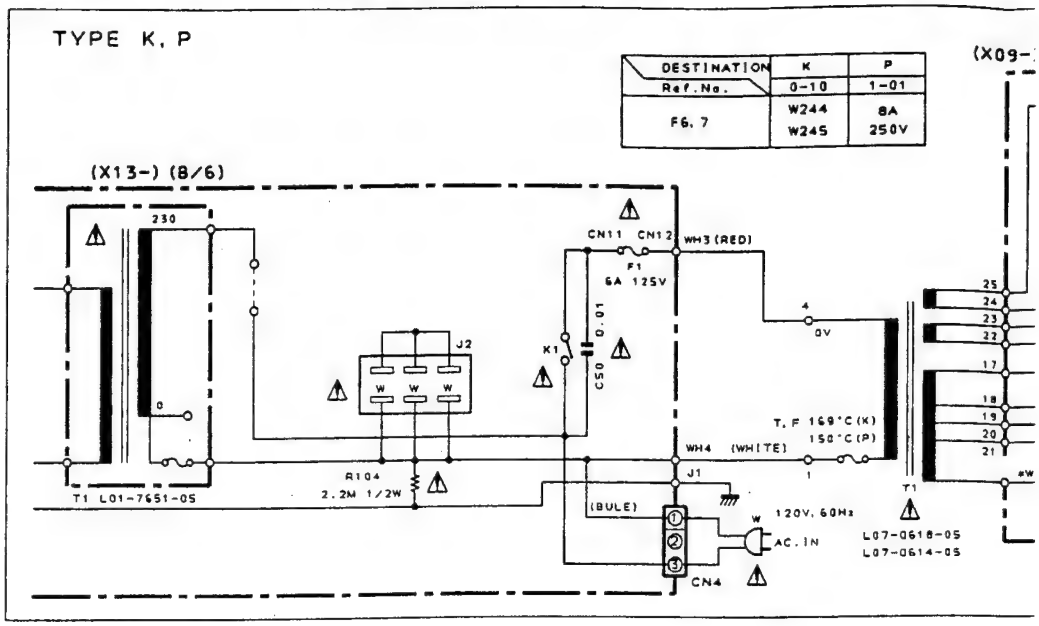
F 40	Q3	D31	D32	D33	D36	D34	D35	C2, C14
	NO	YES	NO	NO	NO	YES	NO	NO
	YES	NO	NO	NO	YES	YES	NO	NO
	YES	NO	NO	NO	YES	YES	NO	NO
	NO	NO	YES	NO	NO	YES		NO
	NO	NO	YES	YES	NO	NO	YES	YES
	NO	NO	YES	YES	NO	YES	NO	YES

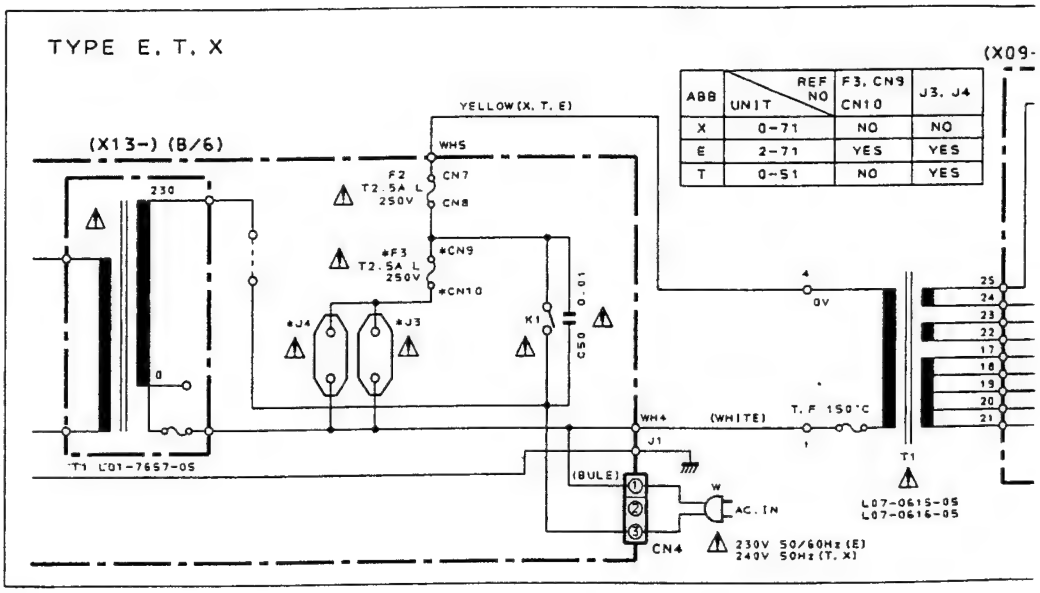
F 40	R5, R34, R44, R46~50 R119, R120	R28, 29	R41, 51, 52 R55~58	R59	R104	S37~39 W55	S24~32	L1~3
	YES	NO	NO	YES	YES	NO	YES	YES
	YES	YES	NO	YES	NO	NO	YES	YES
	YES	YES	NO	YES	NO	NO	YES	YES
	YES	NO	NO	YES	NO	NO	YES	YES
	NO	NO	YES	NO	NO	YES	NO	NO
	YES	NO	YES	NO	NO	YES	YES	NO

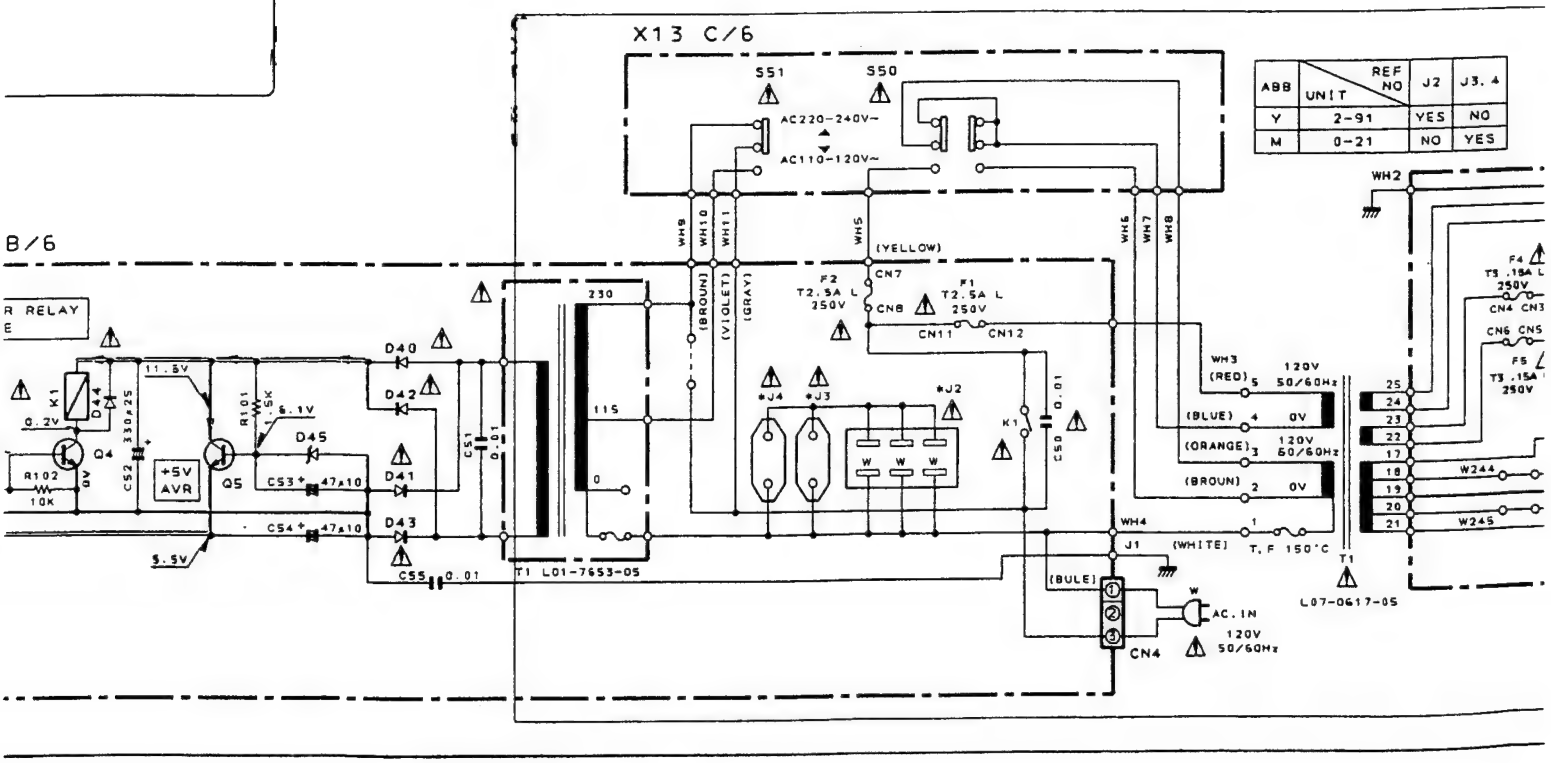
X13-720X-XX

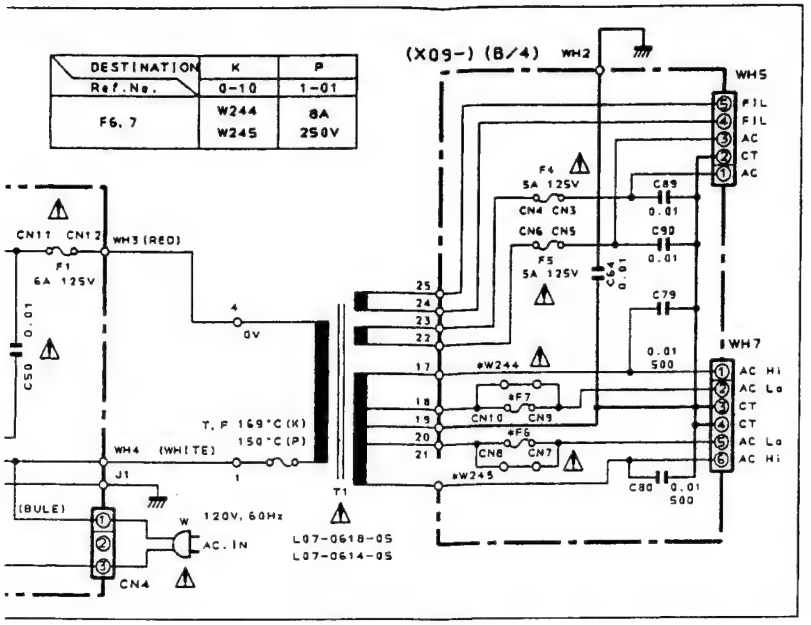
IC1	: μPD78044GF-021
IC2	: PST529C
IC3	: NJM4565L
Q1, 2	: 2SC1740S (Q, R) or 2SC2785 (F, E)
Q3	: 2SA933S (Q, R) or 2SA1175 (F, E)
Q4	: 2SC2883 (L, K)
Q5	: 2SC3940A (R, S)
D1	: B30-1291-05
D2~18	: HSS104 or ISS133
31~35, 44	
D19	: HZS2.7N (B2) or RD2.7ES (B2)
D20	: HZS5.1N (B2) or RD5.1ES (B2)
D40~43	: S5688B or ISR139-100
D45	: HZS6.2N (B2) or RD6.2ES (B2)
ED1	: 10-MT-58GK
A1	: W02-1129-05 or W02-1046-05

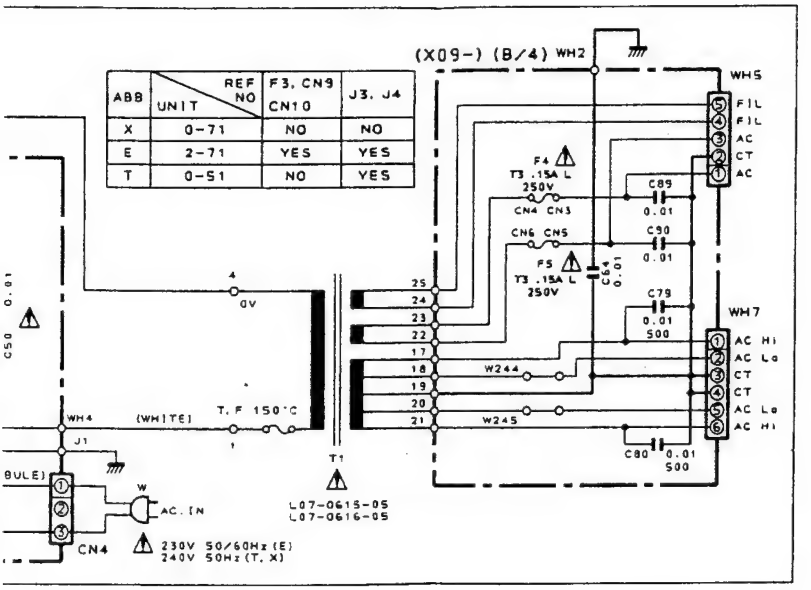


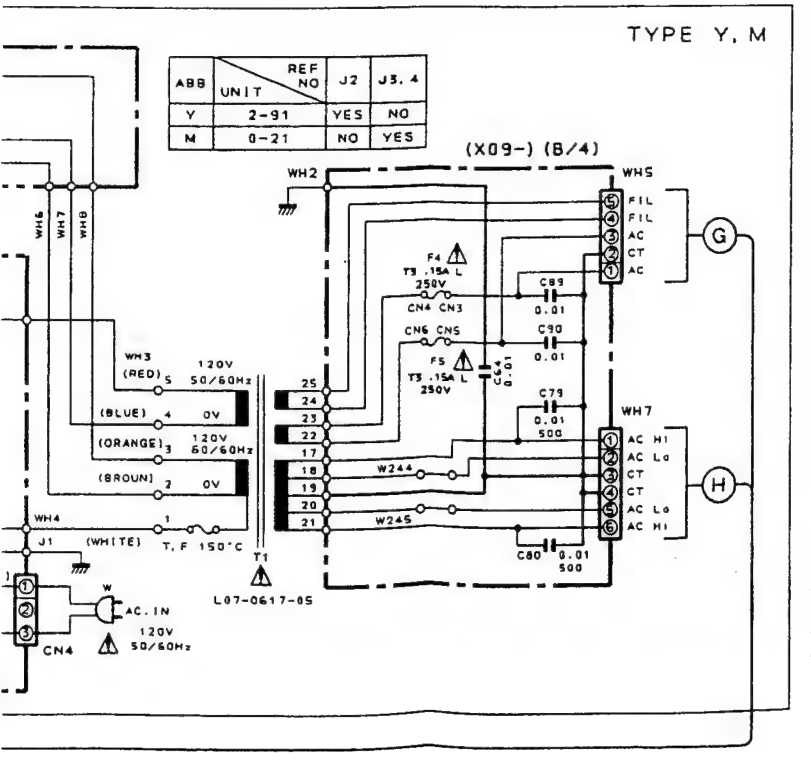












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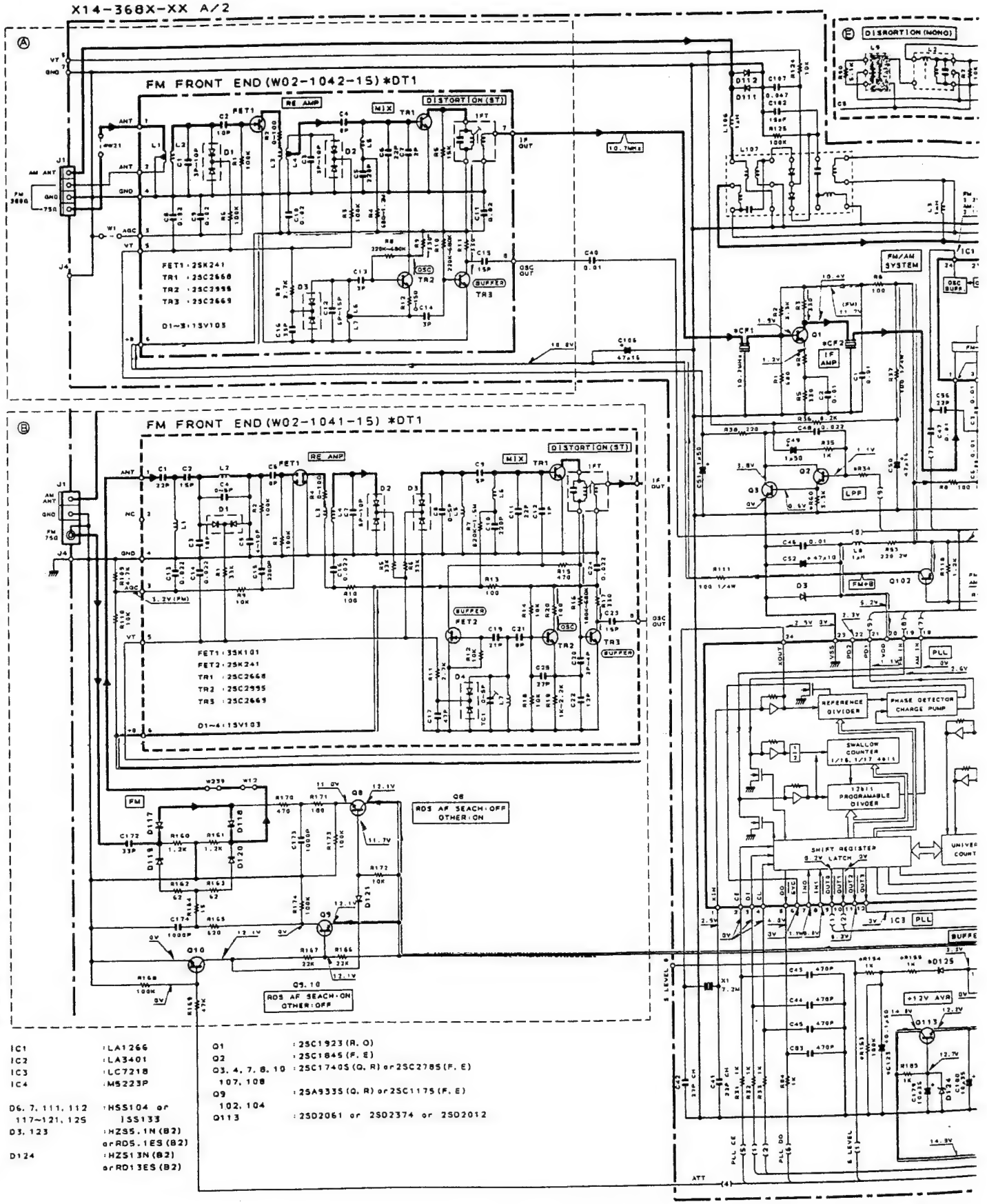
SIGNAL LINE
GND LINE
+B LINE
-B LINE

KR-V6050

KENWOOD

Y05-2710-10

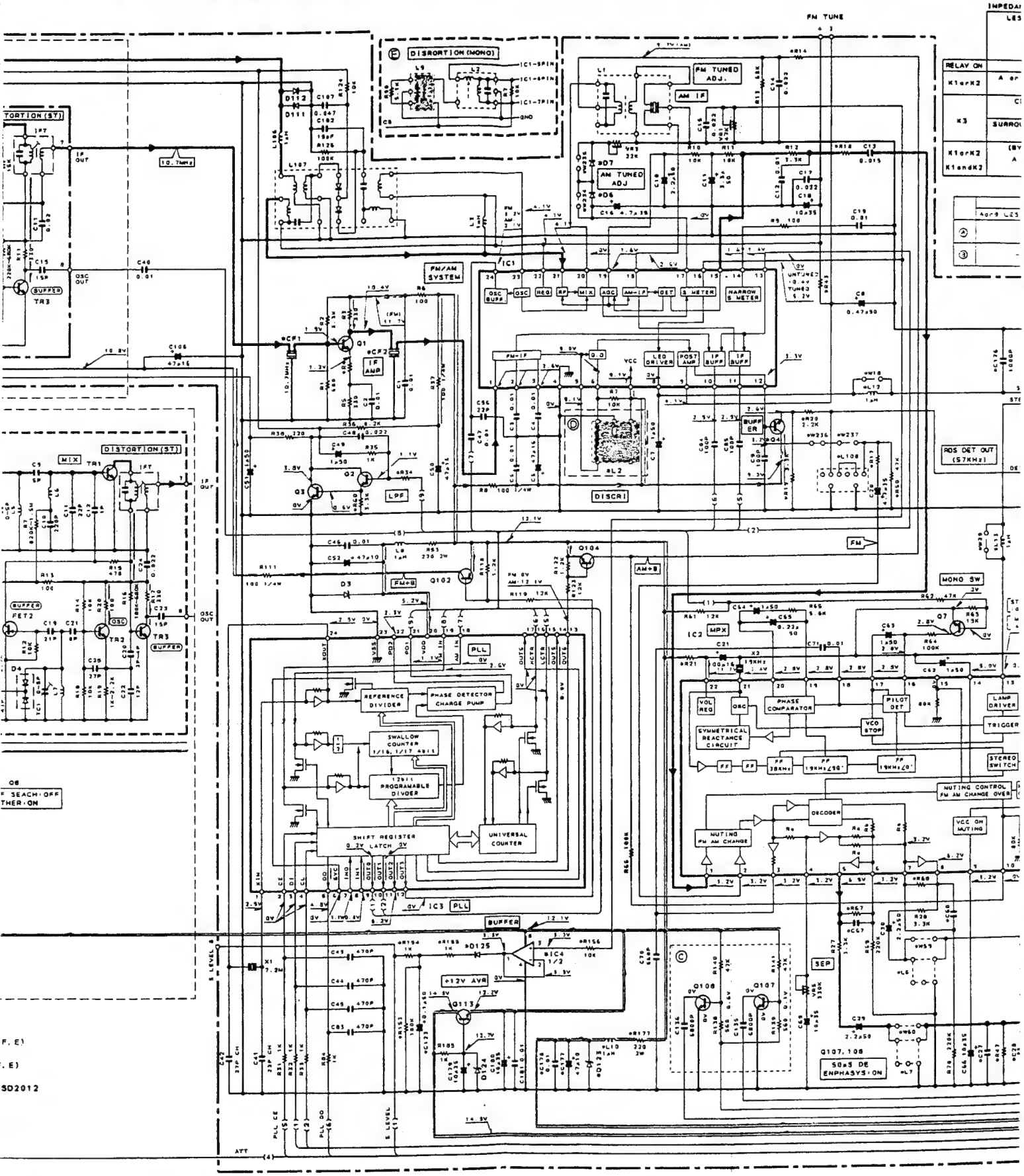
X14-368X-XX A/2



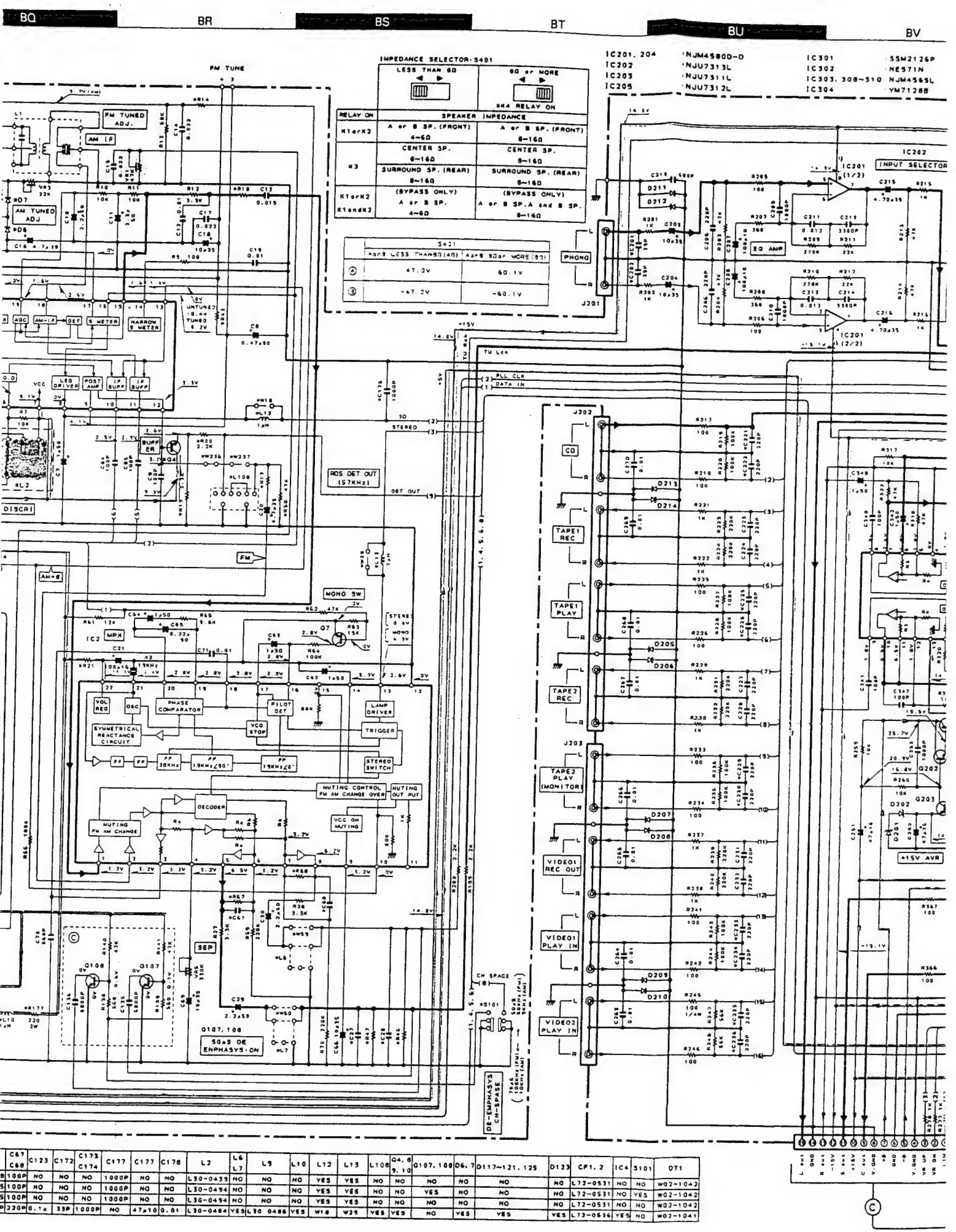
IC1	: LA1266
IC2	: LA3401
IC3	: LC7218
IC4	: M5223P
D6, 7, 111, 112, 117~121, 125	: HSS104 or 1SS133
D3, 123	: HZS5.1N (B2) or RD5.1ES (B2)
D124	: HZS13N (B2) or RD13ES (B2)

Q1	: 2SC1923 (R, O)
Q2	: 2SC1845 (F, E)
Q3, 4, 7, 8, 10, 107, 108	: 2SC1740S (Q, R) or 2SC2785 (F, E)
Q9, 102, 104	: 2SA933S (Q, R) or 2SC1175 (F, E)
Q113	: 2SD2061 or 2SD2374 or 2SD2012

UNIT	ABB	REF. NO / DISTINATION	A	B	C	D	E	R4	R14	R17	R18	R19	R20	R21	R34	R43	R46 R47	R50	R60	R67 R66	R109	R110	R153	R154	R155	R156	R160 R161	R162 R163	R164	R165	R166 R167	R168	R169	R170	R171	R
0-10	K, P	USA, CANADA	YES	NO	NO	YES	NO	56	4.7K	15K	12K	NO	NO	68 1/4W	10K	15K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
0-21	Y, N	PX, OTHER AREAS	YES	NO	YES	YES	NO	56	4.7K	15K	12K	NO	NO	68 1/4W	10K	39K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
0-71	X	AUSTRALIA	YES	NO	NO	YES	NO	56	4.7K	15K	12K	NO	NO	68 1/4W	10K	39K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-71	T, E	ENGLAND, EUROPE	NO	YES	NO	NO	YES	10	5.6K	12K	18K	3.3K	2.2K	47 1/4W	1K	39K	3.3K	47K	NO	220K	4.7K	10K	100K	1K	1K	10K	1.2K	62	1K	620	22K	100K	47K	47Ω	18Ω	



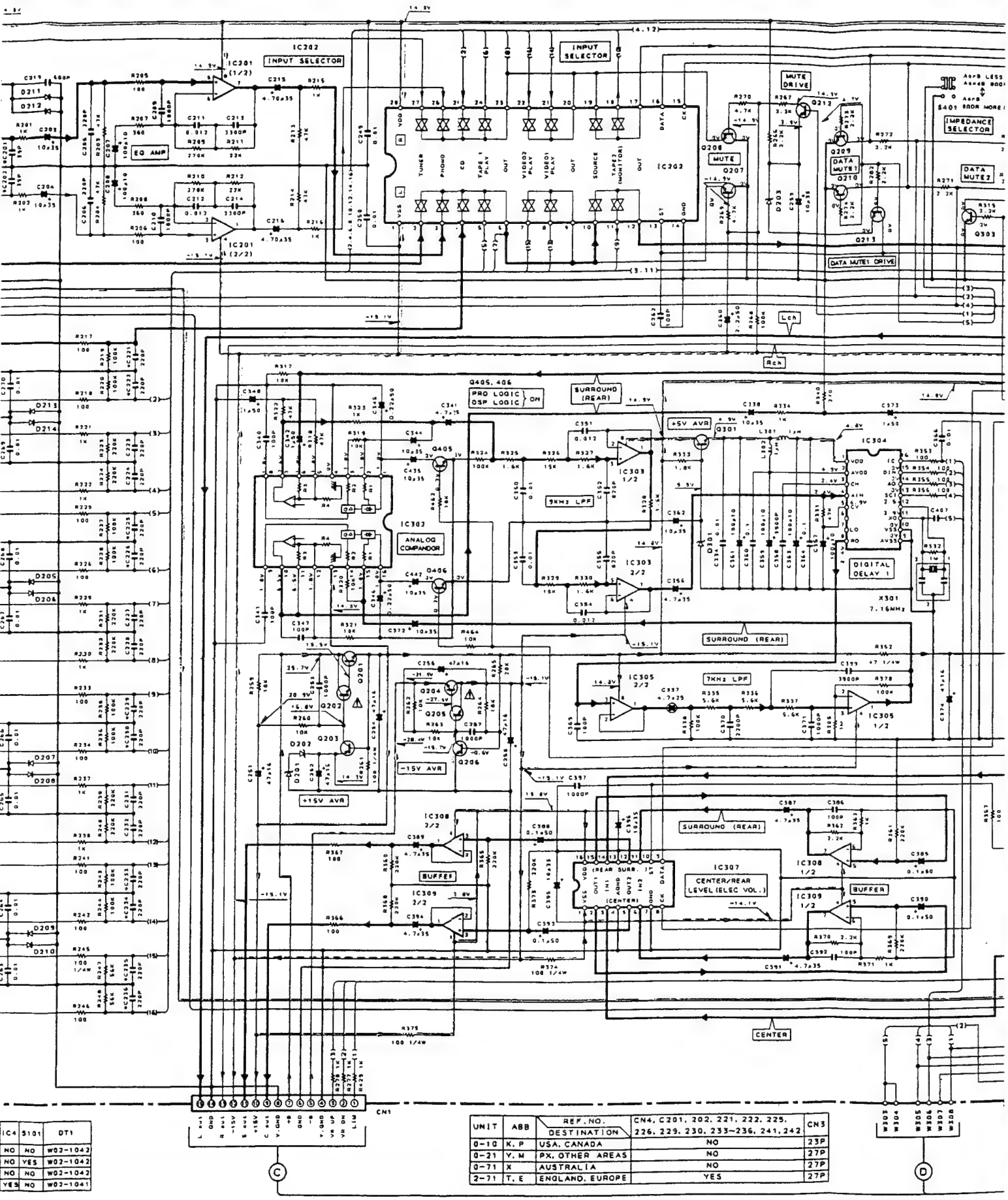
	R34	R43	R46 R47	R50	R60	R67 R68	R109	R110	R153	R154	R155	R156	R160 R161	R162 R163	R164	R165	R166 R167	R168	R169	R170	R171	R172	R173 R174	R177	C27 C28	C67 C68	C123	C172	C173 C174	C177	C177	C178	L2	L6 L7	L9	L10	L12	L13	L10
	10K	15K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.018	100P	NO	NO	NO	1000P	NO	NO	L30-0439	NO	NO	NO	YES	YES	NO
	10K	39K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015	100P	NO	NO	NO	1000P	NO	NO	L30-0494	NO	NO	NO	YES	YES	NO
	10K	39K	39K	NO	3.3K	100K	W1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015	100P	NO	NO	NO	1000P	NO	NO	L30-0494	NO	NO	NO	YES	YES	NO
	1K	39K	3.3K	47K	NO	220K	4.7K	10K	100K	1K	1K	10K	1.2K	62	15	620	22K	100K	47K	470	180	10K	100K	220 2W	3900P	220P	0.1μ	33P	1000P	NO	47μ10	0.01	L30-0484	YES	L30-0485	YES	W18	W29	YES



	C67 C68	C123	C172	C173 C174	C177	C177	C178	L2	L6 L7	L9	L10	L12	L13	L106	Q4, 6 9, 10	Q107, 108	D6, 7	D117~121, 125	D123	CF1, 2	IC4	S101	DT1
B	100P	NO	NO	NO	1000P	NO	NO	L30-0439	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	L72-0531	NO	NO	W02-1042
S	100P	NO	NO	NO	1000P	NO	NO	L30-0494	NO	NO	NO	YES	YES	NO	NO	YES	NO	NO	NO	L72-0531	NO	YES	W02-1042
S	100P	NO	NO	NO	1000P	NO	NO	L30-0494	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	L72-0531	NO	NO	W02-1042
P	220P	0.1u	33P	1000P	NO	47x10	0.01	L30-0484	YES	L30-0485	YES	W18	W29	YES	YES	NO	YES	YES	YES	L73-0536	YES	NO	W02-1041

, 204	NJM4580D-D	IC301	SSM2126P	IC305	M5238AL	Q201, 204	2SD2061 or 2SD2012 or 2SD2374
	NJU7313L	IC302	NE571N	IC306	LA2730	Q202, 203, 209	2SC1740S (Q, R) or 2SC2458 (Y, GR) or
	NJU7311L	IC303, 308~310	NJM4565L	IC307	TC9213P	210, 213, 303	2SC2785 (F, E) or 2SC3311A (Q, R)
	NJU7312L	IC304	YM7128B			304, 306	

Q205, 206, 212
Q207, 208, Q211, 301



IC4	S101	DT1
NO	NO	W02-1042
NO	YES	W02-1042
NO	NO	W02-1042
YES	NO	W02-1041

UNIT	ABB	REF. NO. / DESTINATION	CN4, C201, 202, 221, 222, 225, 226, 229, 230, 233~236, 241, 242	CN3
0-10	K, P	USA, CANADA	NO	23P
0-21	Y, M	PX, OTHER AREAS	NO	27P
0-71	X	AUSTRALIA	NO	27P
2-71	T, E	ENGLAND, EUROPE	YES	27P

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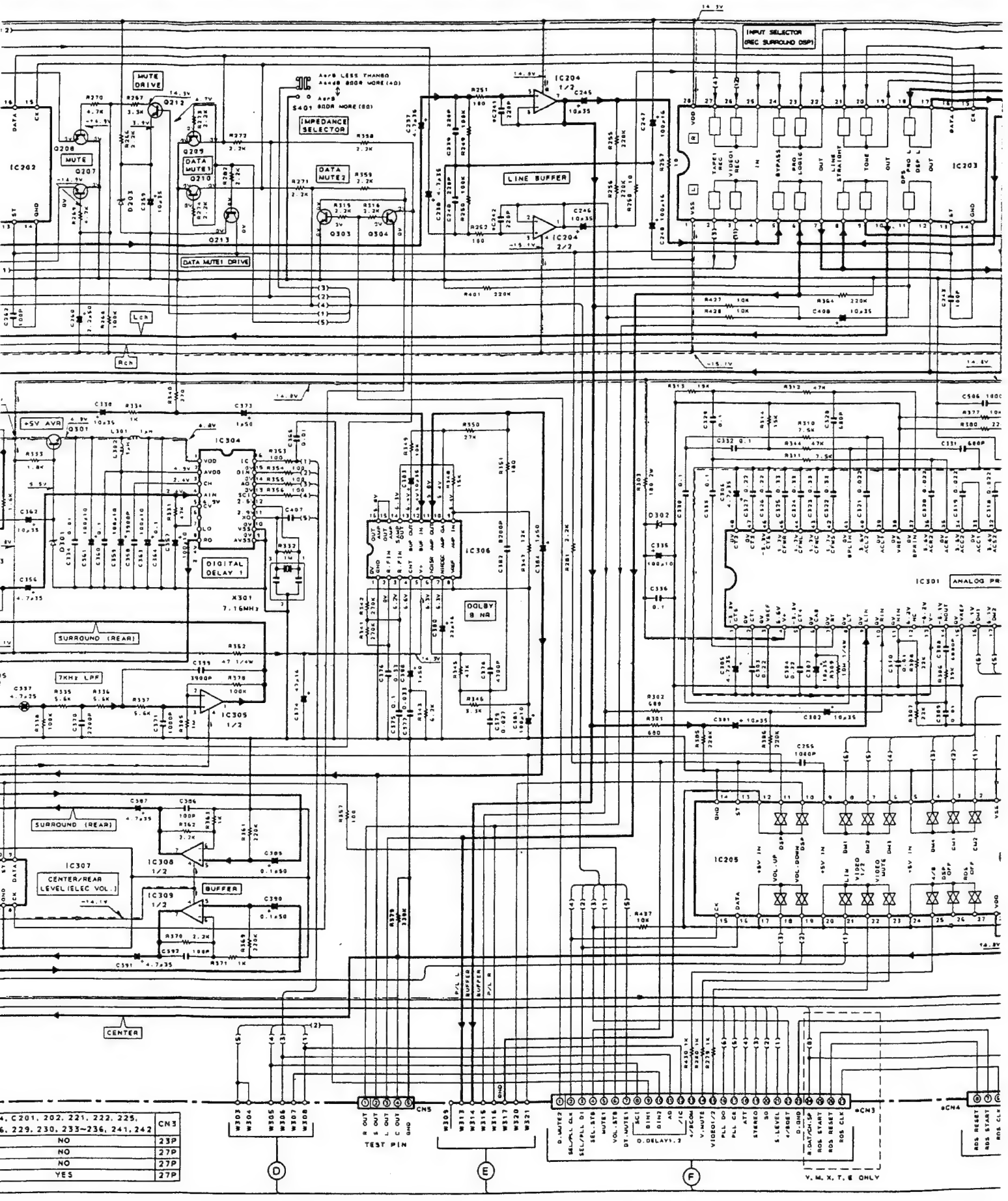
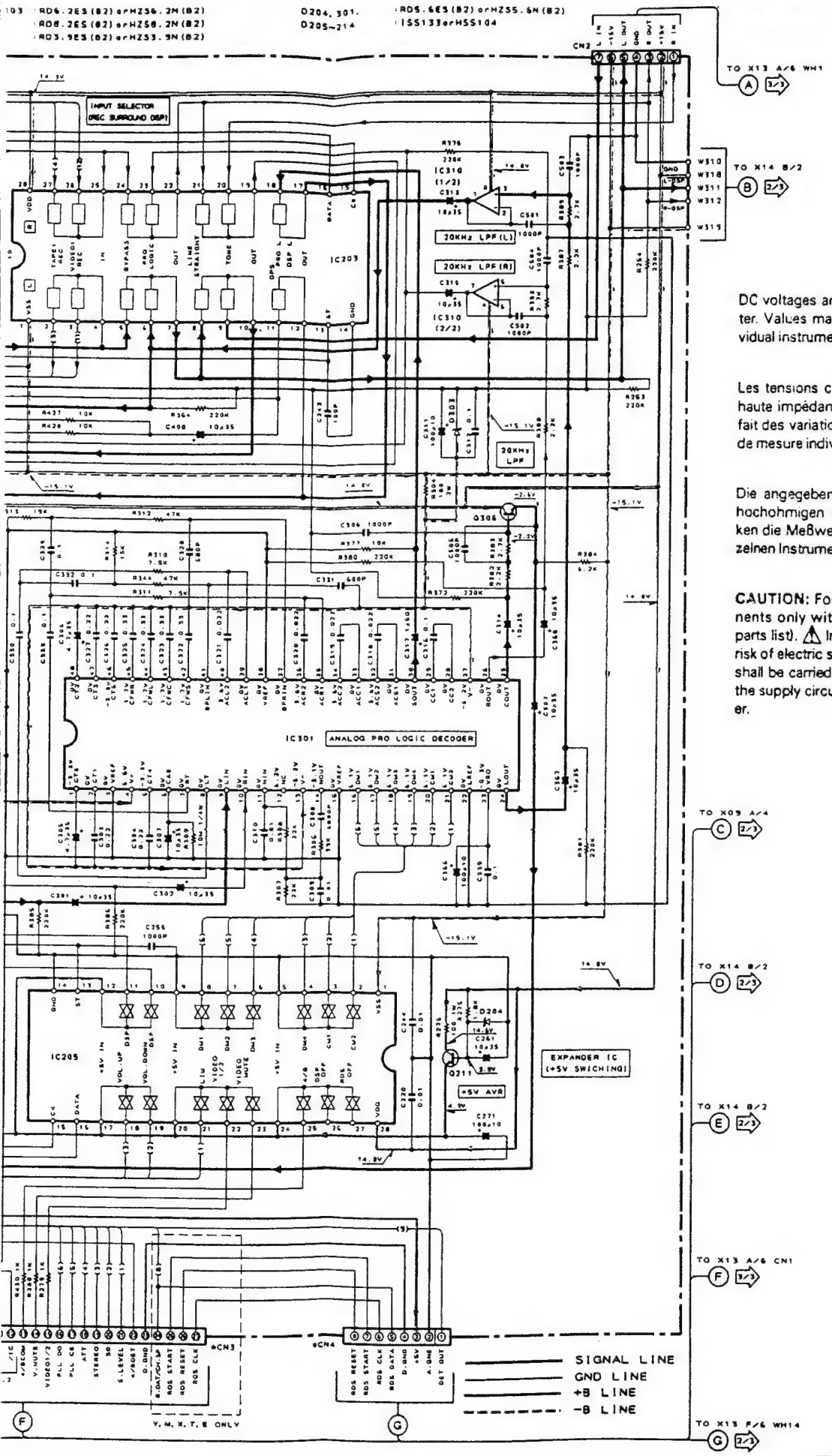
209	2SD2061 or 2SD2012 or 2SD2374 2SC1740S (Q, R) or 2SC2458 (Y, GR) or 2SC2785 (F, E) or 2SC3311A (Q, R)	Q205, 206, 212 Q207, 208, Q211, 301	2SA9335 (Q, R) or 2SA1048 (Y, GR) or 2SA1175 (F, E) or 2SA1309A (Q, R) 2SC2878 (B) 2SC2003 (L, K)	D201, 302, 303 D202 D203	: RD6.2ES (B2) or HZS6.2N (B2) : RD8.2ES (B2) or HZS8.2N (B2) : RD3.9ES (B2) or HZS3.9N (B2)	D204, 301, D205~214



	CN3
4, C201, 202, 221, 222, 225,	
6, 229, 230, 233~236, 241, 242	
NO	23P
NO	27P
NO	27P
YES	27P



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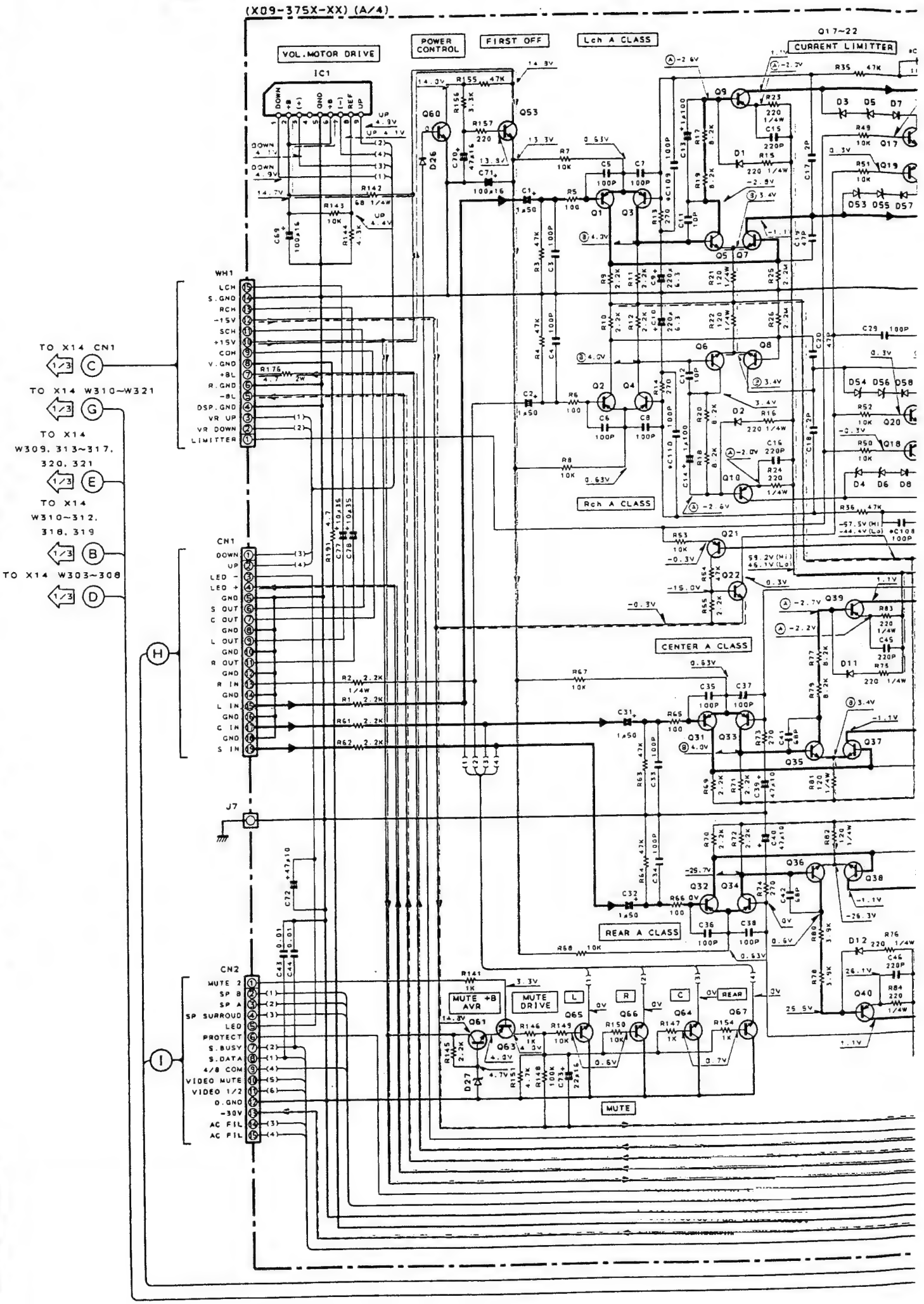
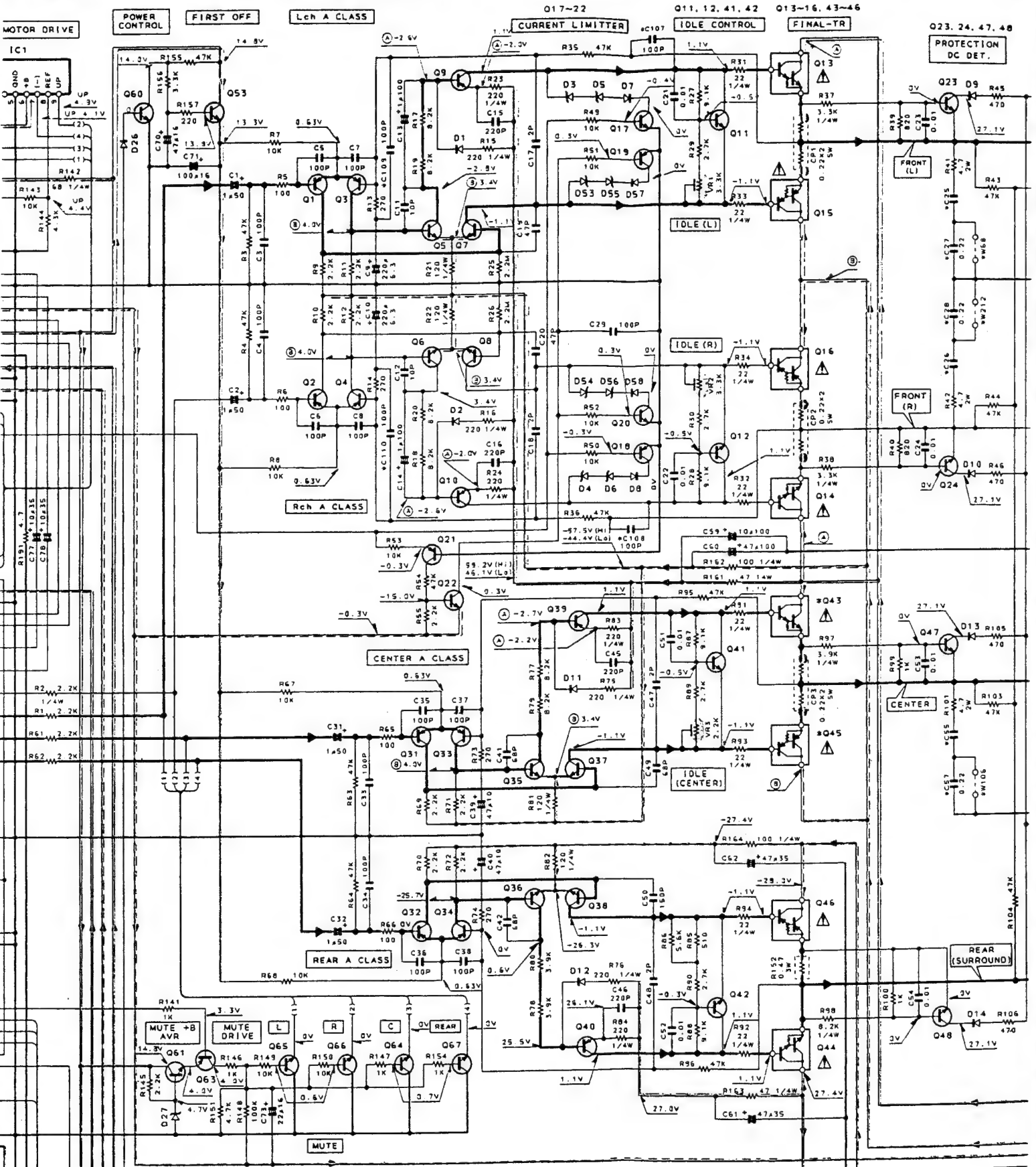
KR-V7050

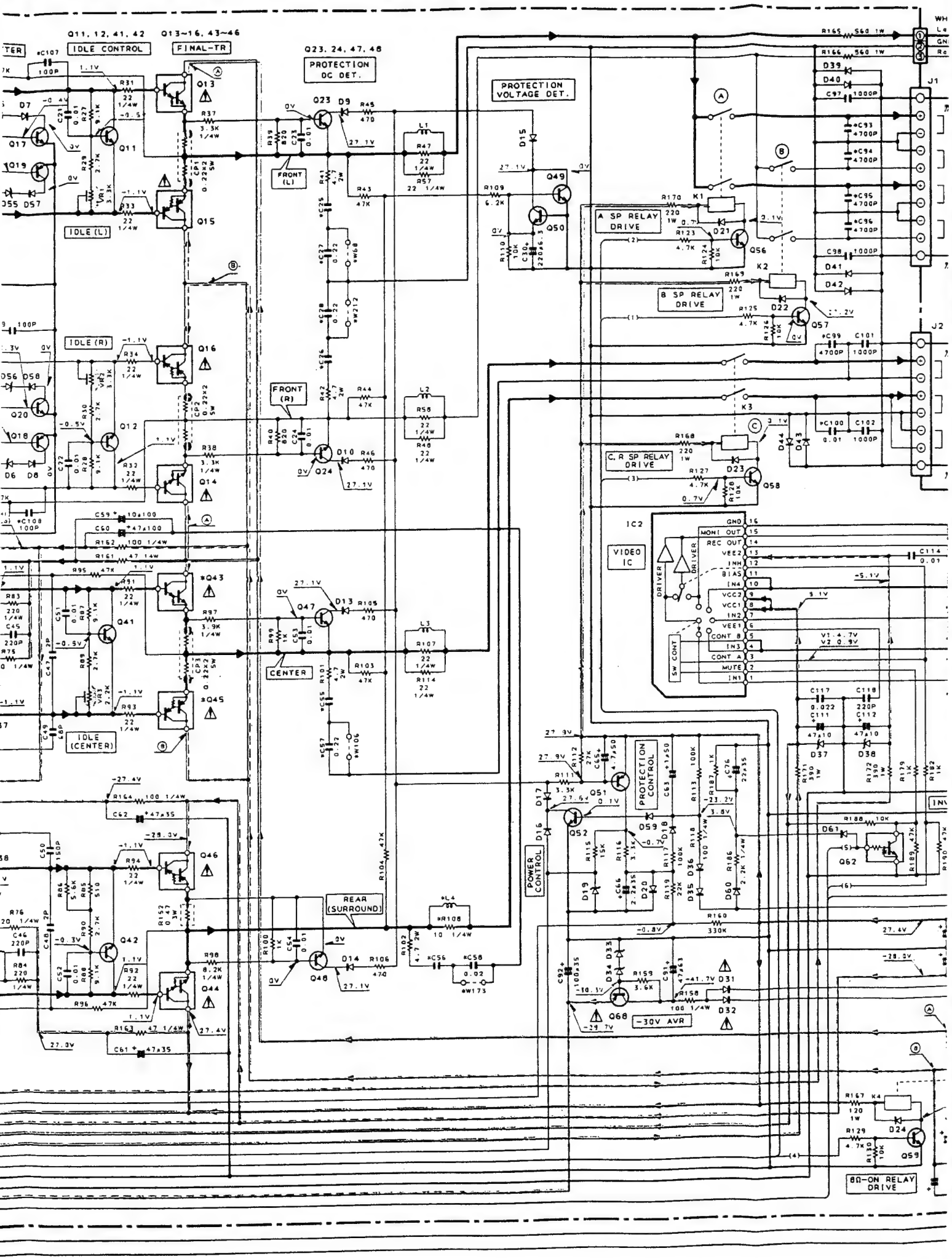
KENWOOD

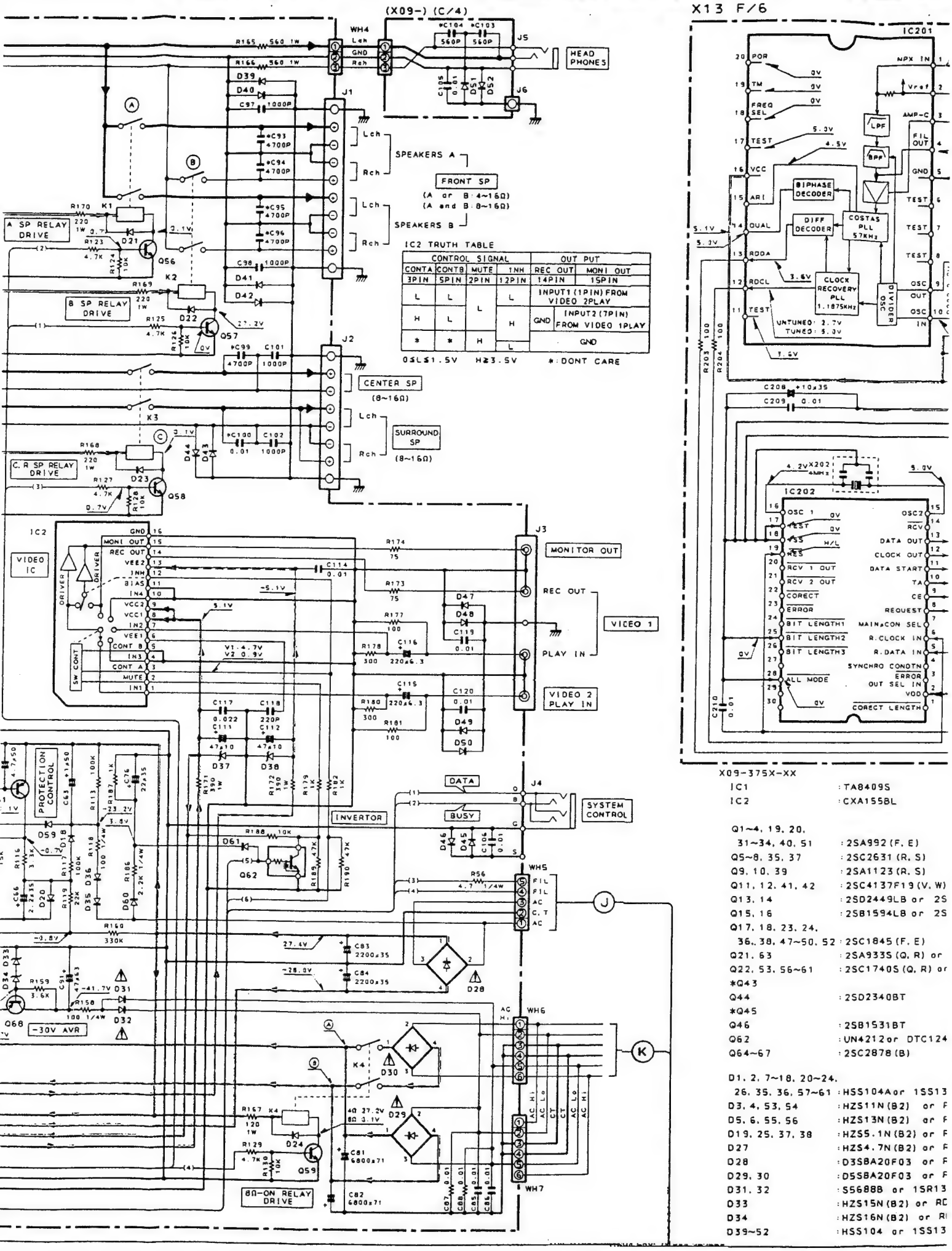
Y05-2700-10


(X09-375X-XX) (A/4)
VOL.MOTOR DRIVE
POWER CONTROL
FIRST OFF
Lch A CLASS
Rch A CLASS
CENTER A CLASS
REAR A CLASS
CURRENT LIMITTER
Q17~22
MUTE +B AVR
MUTE DRIVE
MUTE
IC1
WH1
CN1
CN2
J7
TO X14 CN1
TO X14 W310~W321
TO X14 W309, 313~317, 320, 321
TO X14 W310~312, 318, 319
TO X14 W303~308

X-XX) (A/4)


MOTOR DRIVE
IC1
POWER CONTROL
FIRST OFF
Lch A CLASS
Rch A CLASS
CENTER A CLASS
REAR A CLASS
Q17~22
CURRENT LIMITTER
Q11, 12, 41, 42
IDLE CONTROL
Q13~16, 43~46
FINAL-TR
Q23, 24, 47, 48
PROTECTION DC DET.
IDLE (L)
IDLE (R)
IDLE (CENTER)
FRONT (L)
FRONT (R)
CENTER
REAR (SURROUND)
MUTE +B AVR
MUTE DRIVE
L
R
C
REAR
MUTE


Q11, 12, 41, 42
IDLE CONTROL
Q13~16, 43~46
FINAL-TR
Q23, 24, 47, 48
PROTECTION DC DET.
PROTECTION VOLTAGE DET.
IDLE (L)
IDLE (R)
IDLE (CENTER)
FRONT (L)
FRONT (R)
CENTER
REAR (SURROUND)
A SP RELAY DRIVE
B SP RELAY DRIVE
C, R SP RELAY DRIVE
VIDEO IC
PROTECTION CONTROL
POWER CONTROL
-30V AVR
8Ω-ON RELAY DRIVE

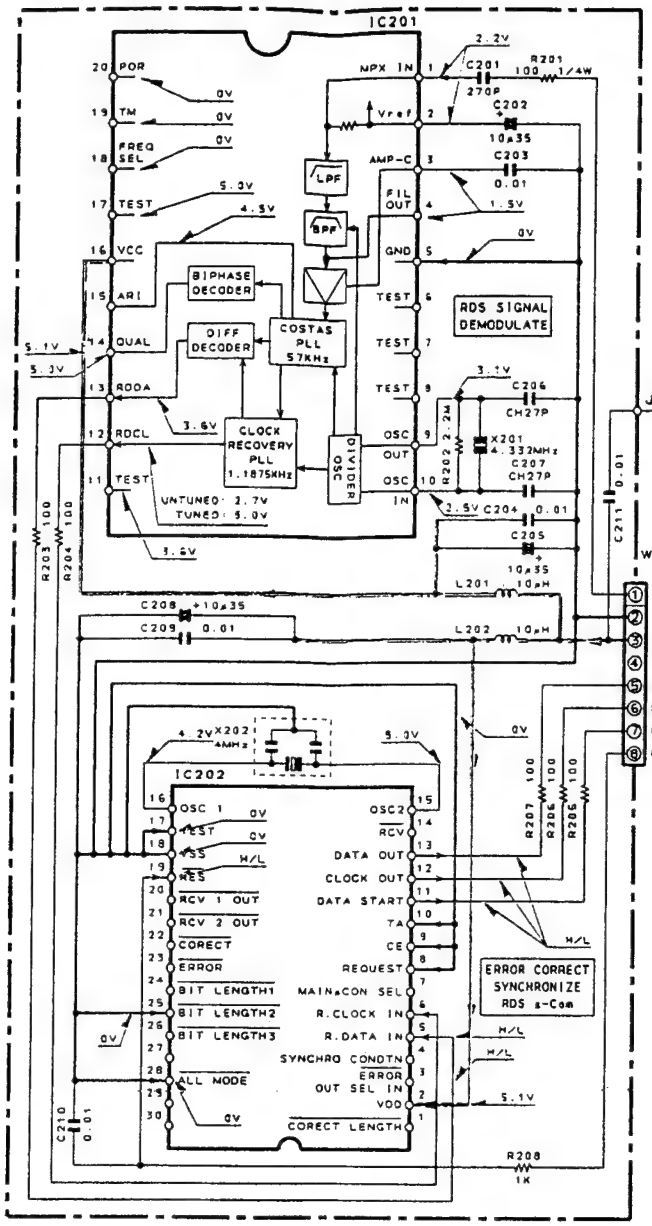


X13 F/6

X09-375X-XX

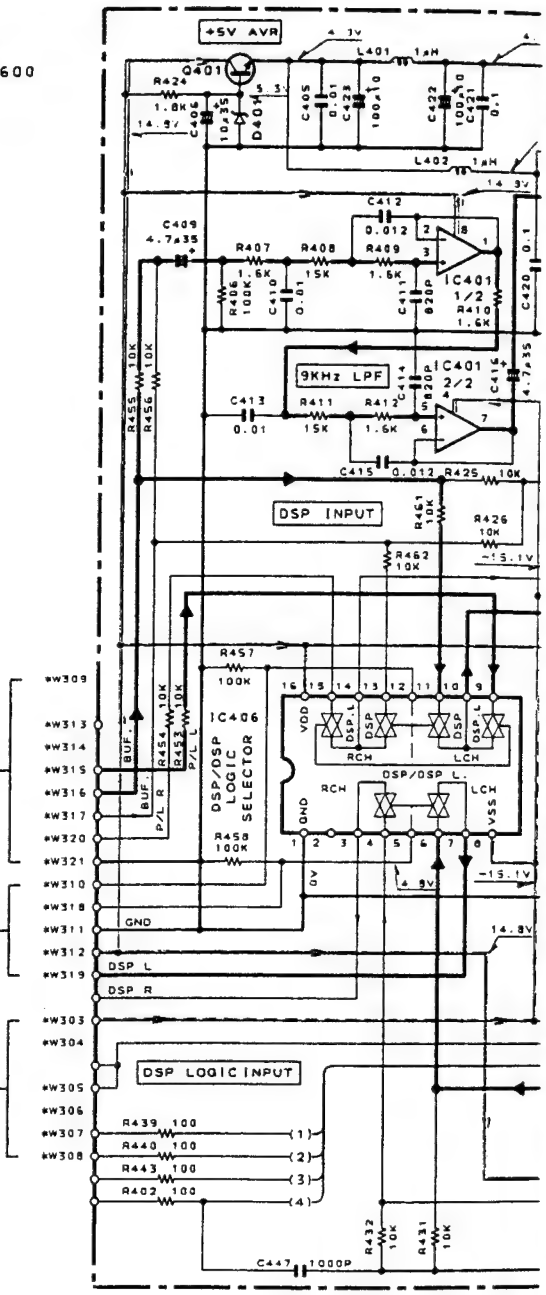
IC1	:TA8409S
IC2	:CXA1558L
Q1~4, 19, 20, 31~34, 40, 51	:2SA992 (F, E)
Q5~8, 35, 37	:2SC2631 (R, S)
Q9, 10, 39	:2SA1123 (R, S)
Q11, 12, 41, 42	:2SC4137F19 (V, W)
Q13, 14	:2SD2449LB or 2S
Q15, 16	:2SB1594LB or 2S
Q17, 18, 23, 24, 36, 38, 47~50, 52	:2SC1845 (F, E)
Q21, 63	:2SA933S (Q, R) or
Q22, 53, 56~61	:2SC1740S (Q, R) or
*Q43	
Q44	:2SD2340BT
*Q45	
Q46	:2SB1531BT
Q62	:UN4212or DTC124
Q64~67	:2SC2878 (B)
D1, 2, 7~18, 20~24, 26, 35, 36, 57~61	:HSS104Aor 1SS13
D3, 4, 53, 54	:HZS11N (B2) or F
D5, 6, 55, 56	:HZS13N (B2) or F
D19, 25, 37, 38	:HZS5.1N (B2) or F
D27	:HZS4.7N (B2) or F
D28	:D3SBA20F03 or F
D29, 30	:D5SBA20F03 or F
D31, 32	:S5688B or 1SR13
D33	:HZS15N (B2) or RD
D34	:HZS16N (B2) or RI
D39~52	:HSS104 or 1SS13

X13 F/6



X13 F/6
IC201 : TDA7330A
IC202 : LC6543H-4600

X14 B/2

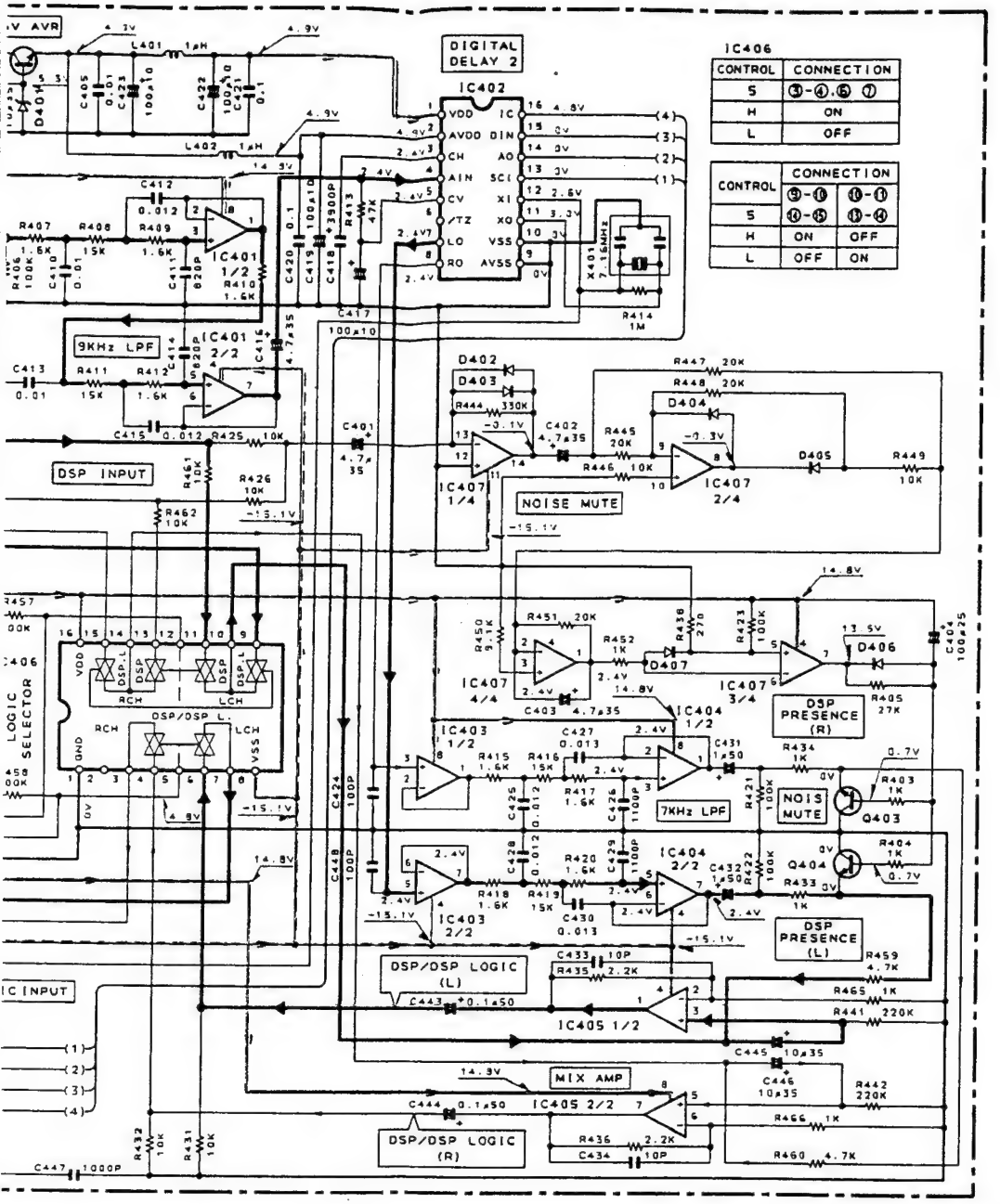


X09-375X-XX

IC1	: TA8409S
IC2	: CXA1558L
Q1~4, 19, 20, 31~34, 40, 51	: 2SA992 (F, E)
Q5~8, 35, 37	: 2SC2631 (R, S)
Q9, 10, 39	: 2SA1123 (R, S)
Q11, 12, 41, 42	: 2SC4137F19 (V, W)
Q13, 14	: 2SD2449LB or 2SD2222BT
Q15, 16	: 2SB1594LB or 2SB1470BT
Q17, 18, 23, 24, 36, 38, 47~50, 52	: 2SC1845 (F, E)
Q21, 63	: 2SA933S (Q, R) or 2SA1175 (F, E)
Q22, 53, 56~61	: 2SC1740S (Q, R) or 2SC2785 (F, E)
*Q43	
Q44	: 2SD2340BT
*Q45	
Q46	: 2SB1531BT
Q62	: UN4212or DTC124ES
Q64~67	: 2SC2878 (B)
D1, 2, 7~18, 20~24, 26, 35, 36, 57~61	: HSS104Aor 1SS131
D3, 4, 53, 54	: HZS11N (B2) or RD11ES (B2)
D5, 6, 55, 56	: HZS13N (B2) or RD13ES (B2)
D19, 25, 37, 38	: HZS5.1N (B2) or RD5.1ES (B2)
D27	: HZS4.7N (B2) or RD4.7ES (B2)
D28	: D3SBA20F03 or RBV-402LFA
D29, 30	: D5SBA20F03 or RBV-602LFA
D31, 32	: S5688B or 1SR139-100
D33	: HZS15N (B2) or RD15ES (B2)
D34	: HZS16N (B2) or RD16ES (B2)
D39~52	: HSS104 or 1SS133

DESTINATION / Ref.No.	K 0-10	P 1-01	T, E 2-71	Y, M, X 0-21
C25, 26, 55, 56	0.1μ	0.1μ	0.22μ	0.1μ
C27, 28, 57, 58	NO	NO	YES	NO
C93, 94, 95, 96 103, 104, 107~110	NO	NO	YES	NO
C107~110	NO	NO	YES	NO
R108	W169	W169	YES	W169
C99, 100 L4	NO	NO	YES	NO
W68, 106, 173, 212	YES	YES	NO	YES

DESTINATION / Ref.No.	K 0-10	P 1-01	T, E 2-71	Y, M, X 0-21
*Q43 2SD2255BT 2SD2255BY*1	YES	NO	NO	NO
2SD2384LB	NO	YES	YES	YES
*Q45 2SB1493BT 2SB1493BT*1	YES	NO	NO	NO
2SB1555LB	NO	YES	YES	YES



IC406	
CONTROL	CONNECTION
S	③-④, ⑤-⑦
H	ON
L	OFF

CONTROL	CONNECTION	
	⑨-⑩	⑩-①
S	⑭-⑮	⑬-⑭
H	ON	OFF
L	OFF	ON

X14 B/2

IC401	: NJM4565L
IC402	: YM71288
IC403	: M5238AL
IC404, 405	: NJM4565L
IC406	: TC9215P
IC407	: μPC4574C
D401	: HZS5.6N(B2) or RD5.6ES(B2)
D402~407	: 1SS133 or HSS104
Q401	: 2SC2003(L, K)
Q403, 404	: 2SC2878(B)

TO X13 CN5 (H) 3/3
TO X13 WH12 (I) 3/3
TO X13 WH5 (J) 3/3
TO X13 WH7 (K) 3/3

	P	T, E	V, M, X
	1-01	2-71	0-21
	0.1μ	0.22μ	0.1μ
	NO	YES	NO
	NO	YES	NO
	NO	YES	NO
	W169	YES	W169
	NO	YES	NO
	YES	NO	YES

	P	T, E	V, M, X
	1-01	2-71	0-21
	NO	NO	NO
	YES	YES	YES
	NO	NO	NO
	YES	YES	YES

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

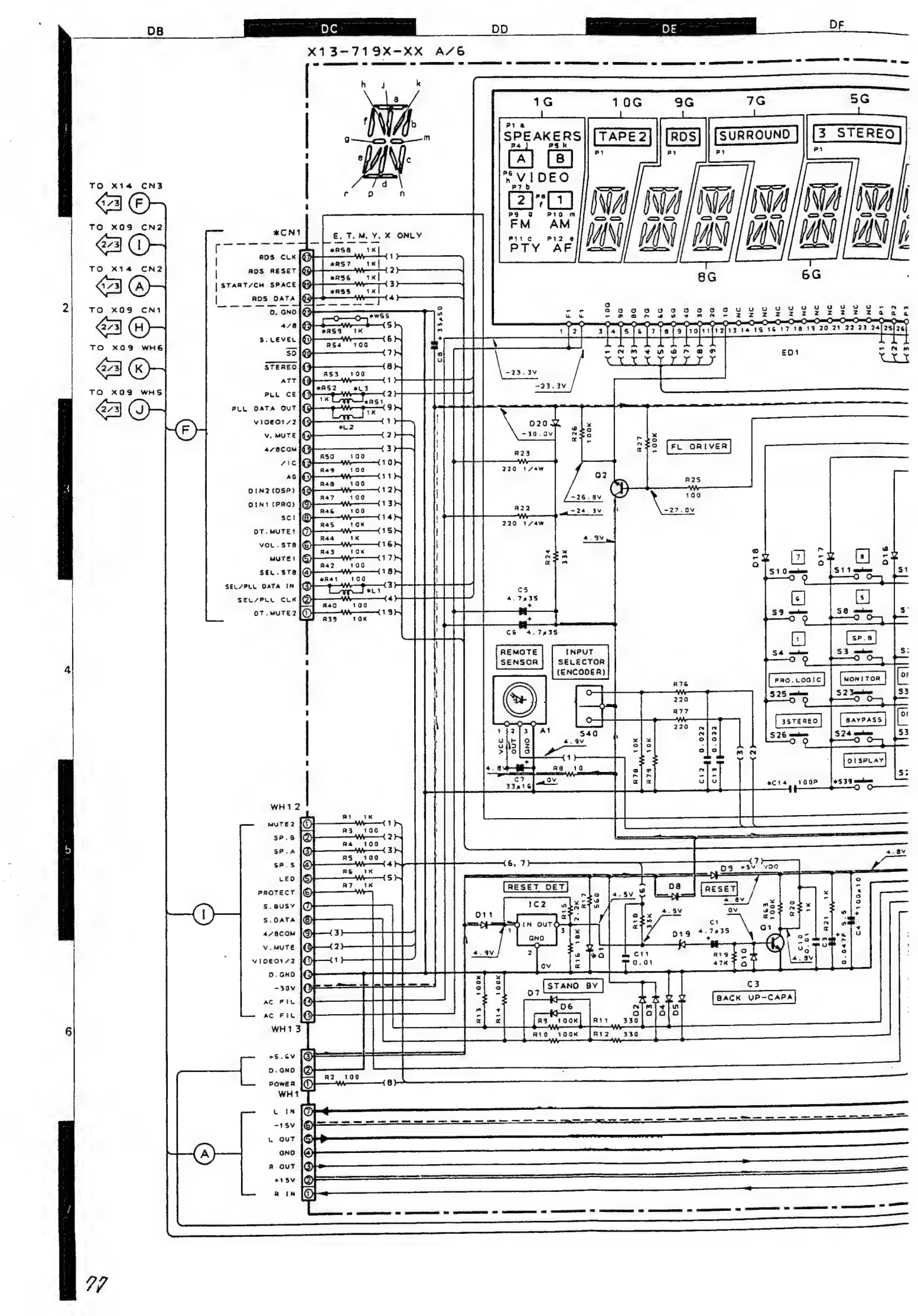
SIGNAL LINE
GND LINE
+B LINE
-B LINE

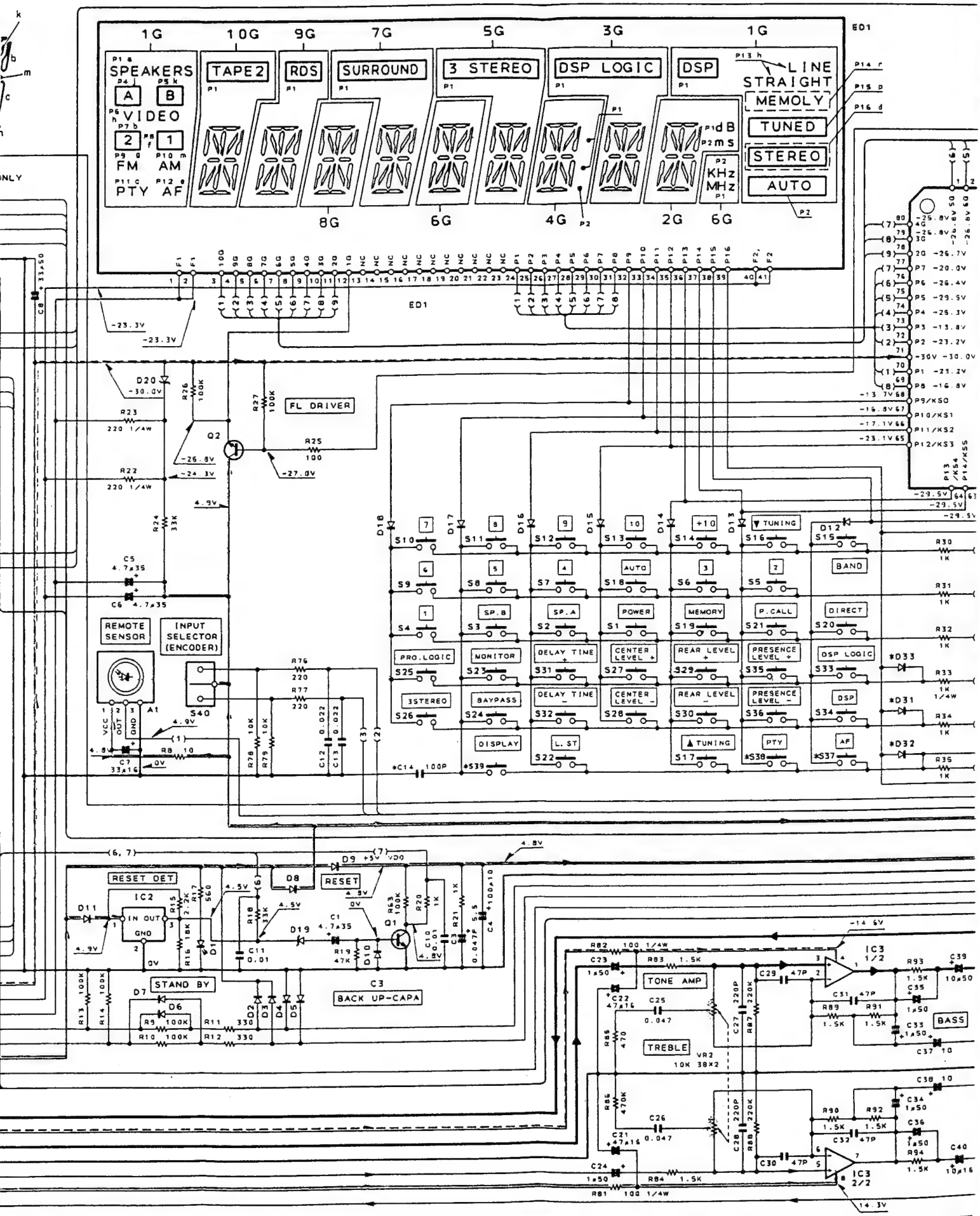
2/3

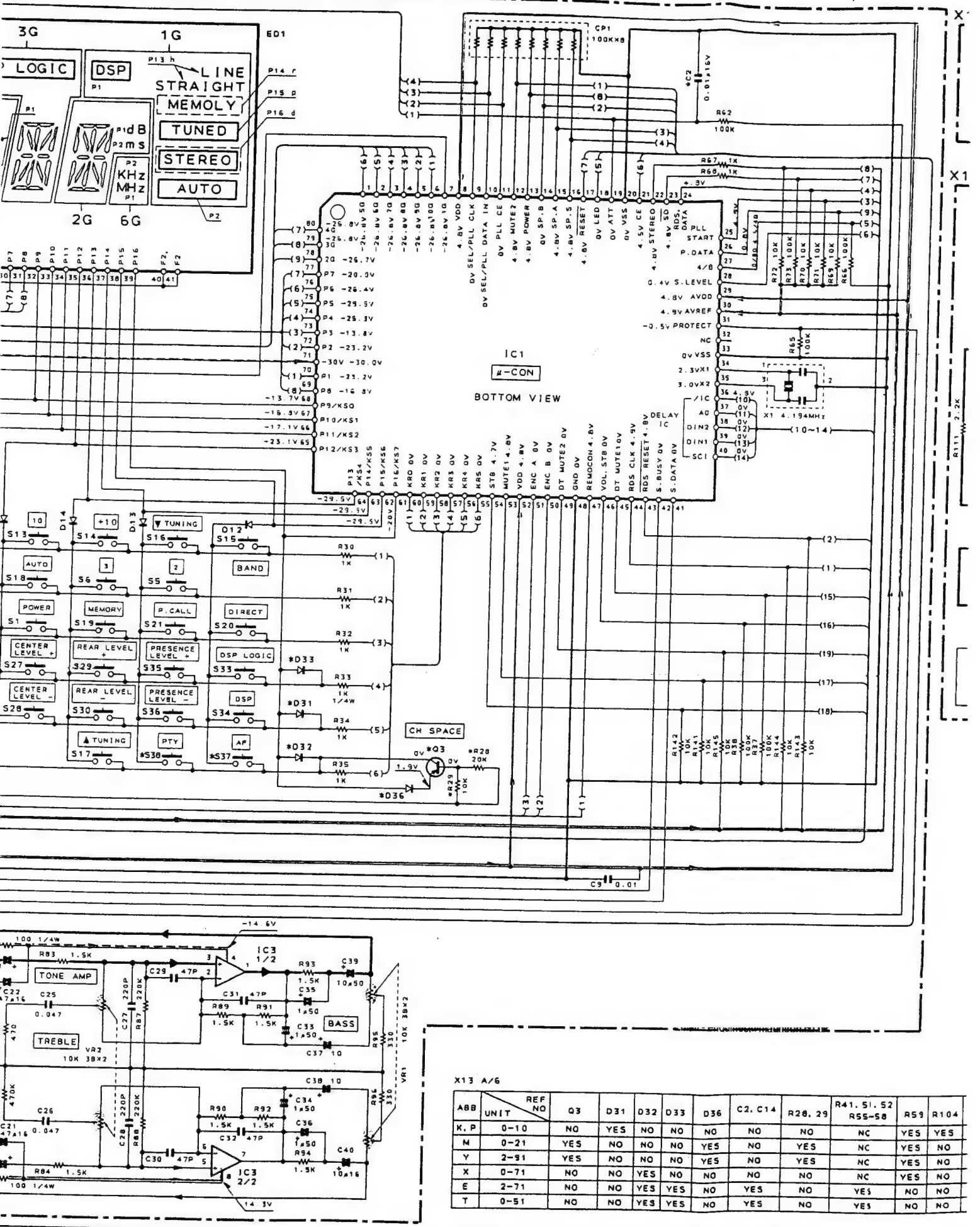
KR-V7050

KENWOOD

Y05-2700-10

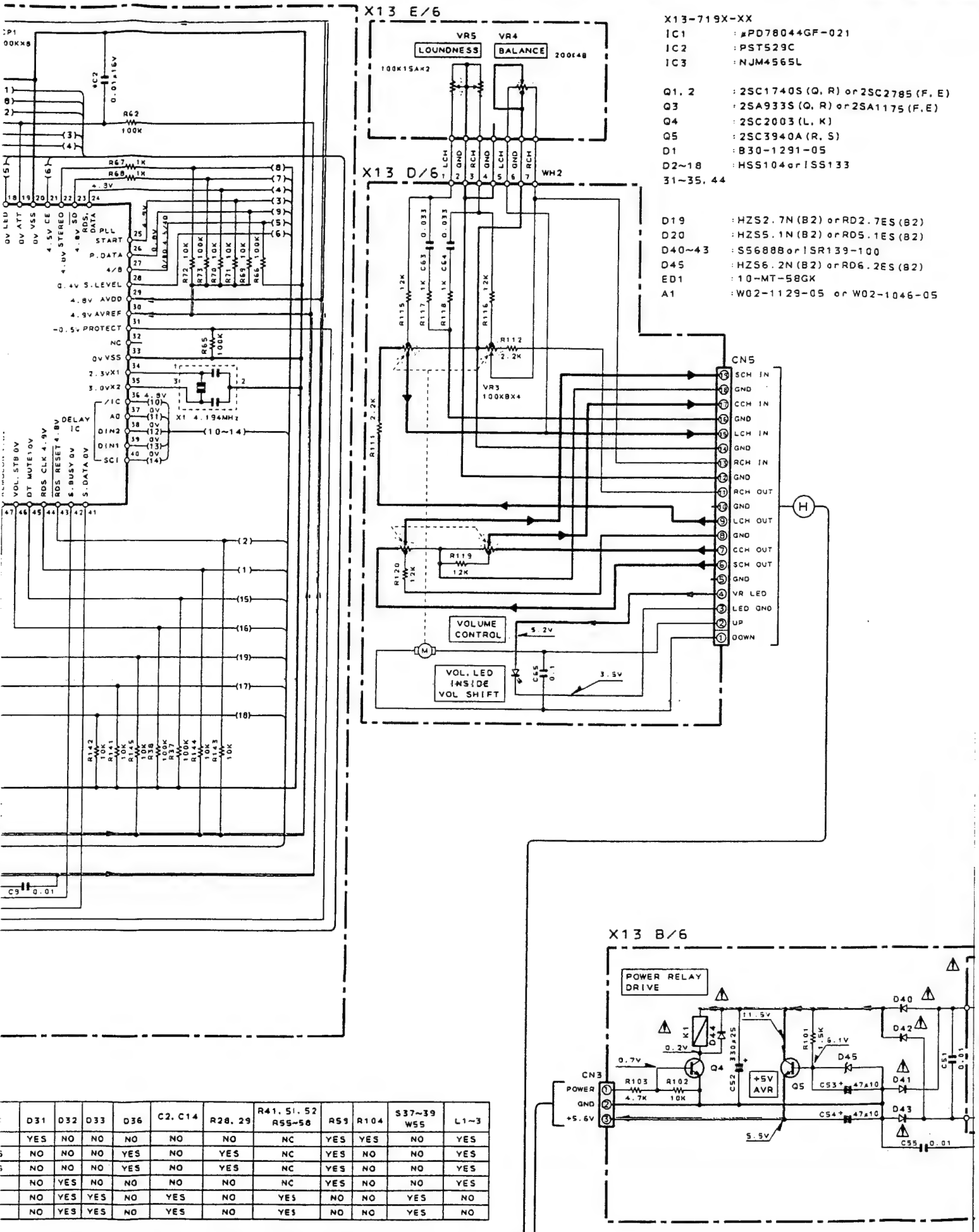

DB
DC
DD
DE
DF
X13-719X-XX A/6
1G
10G
9G
7G
5G
8G
6G
SPEAKERS
TAPE2
RDS
SURROUND
3 STEREO
VIDEO
FM
AM
PTY
AF
TO X14 CN3
TO X09 CN2
TO X14 CN2
TO X09 CN1
TO X09 WH6
TO X09 WH5
*CN1
E, T, M, Y, X ONLY
RDS CLK
RDS RESET
START/CH SPACE
RDS DATA
D. GND
4/8
S. LEVEL
SD
STEREO
ATT
PLL CE
PLL DATA OUT
VIDEO1/2
V. MUTE
4/8COM
/IC
AO
DIN2 (DSP)
DIN1 (PRO)
SCI
DT. MUTE1
VOL. STB
MUTE1
SEL. STB
SEL/PLL DATA IN
SEL/PLL CLK
DT. MUTE2
FL DRIVER
REMOTE SENSOR
INPUT SELECTOR (ENCODER)
PRO. LOGIC
MONITOR
3STEREO
BAYPASS
DISPLAY
RESET DET
RESET
STAND BY
BACK UP-CAPA
WH12
MUTE2
SP. B
SP. A
SP. S
LED
PROTECT
S. BUSY
S. DATA
4/8COM
V. MUTE
VIDEO1/2
D. GND
-30V
AC FIL
AC FIL
WH13
+5.6V
D. GND
POWER
WH1
L IN
-15V
L OUT
GND
R OUT
+15V
R IN


1G
10G
9G
7G
5G
3G
1G
SPEAKERS
A
B
VIDEO
2
1
FM
AM
PTY
AF
TAPE2
RDS
SURROUND
3 STEREO
DSP LOGIC
DSP
LINE
STRAIGHT
MEMOLY
TUNED
STEREO
AUTO
dB
ms
KHz
MHz
8G
6G
4G
2G
6G
ED1
FL DRIVER
REMOTE SENSOR
INPUT SELECTOR (ENCODER)
S40
RESET DET
IC2
RESET
STAND BY
BACK UP-CAPA
TONE AMP
TREBLE
BASS
VR2
10K 38X2
IC3 1/2
IC3 2/2
TUNING
BAND
DIRECT
DSP LOGIC
PRO.LOGIC
MONITOR
DELAY TIME +
CENTER LEVEL +
REAR LEVEL +
PRESENCE LEVEL +
3STEREO
BAYPASS
DELAY TIME -
CENTER LEVEL -
REAR LEVEL -
PRESENCE LEVEL -
DISPLAY
L. ST
P.CALL
SP.B
SP.A
POWER
MEMORY



X13 A/6

ABB	UNIT \ REF NO	Q3	D31	D32	D33	D36	C2, C14	R28, 29	R41, 51, 52 R55~58	R59	R104
K, P	0-10	NO	YES	NO	NO	NO	NO	NO	NC	YES	YES
M	0-21	YES	NO	NO	NO	YES	NO	YES	NC	YES	NO
Y	2-91	YES	NO	NO	NO	YES	NO	YES	NC	YES	NO
X	0-71	NO	NO	YES	NO	NO	NO	NO	NC	YES	NO
E	2-71	NO	NO	YES	YES	NO	YES	NO	YES	NO	NO
T	0-51	NO	NO	YES	YES	NO	YES	NO	YES	NO	NO



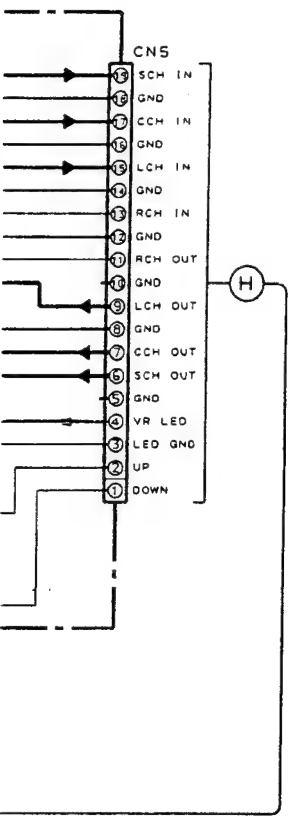
X13-719X-XX

IC1	:μPD78044GF-021
IC2	:PST529C
IC3	:NJM4565L
Q1, 2	:2SC1740S(Q, R) or 2SC2785(F, E)
Q3	:2SA933S(Q, R) or 2SA1175(F, E)
Q4	:2SC2003(L, K)
Q5	:2SC3940A(R, S)
D1	:B30-1291-05
D2~18 31~35, 44	:HSS104 or ISS133
D19	:HZS2.7N(B2) or RD2.7ES(B2)
D20	:HZS5.1N(B2) or RD5.1ES(B2)
D40~43	:S5688B or ISR139-100
D45	:HZS6.2N(B2) or RD6.2ES(B2)
ED1	:10-MT-58GK
A1	:W02-1129-05 or W02-1046-05

	D31	D32	D33	D36	C2, C14	R28, 29	R41, 51, 52 R55~58	R53	R104	S37~39 W55	L1~3
	YES	NO	NO	NO	NO	NO	NC	YES	YES	NO	YES
	NO	NO	NO	YES	NO	YES	NC	YES	NO	NO	YES
	NO	NO	NO	YES	NO	YES	NC	YES	NO	NO	YES
	NO	YES	NO	NO	NO	NO	NC	YES	NO	NO	YES
	NO	YES	YES	NO	YES	NO	YES	NO	NO	YES	NO
	NO	YES	YES	NO	YES	NO	YES	NO	NO	YES	NO

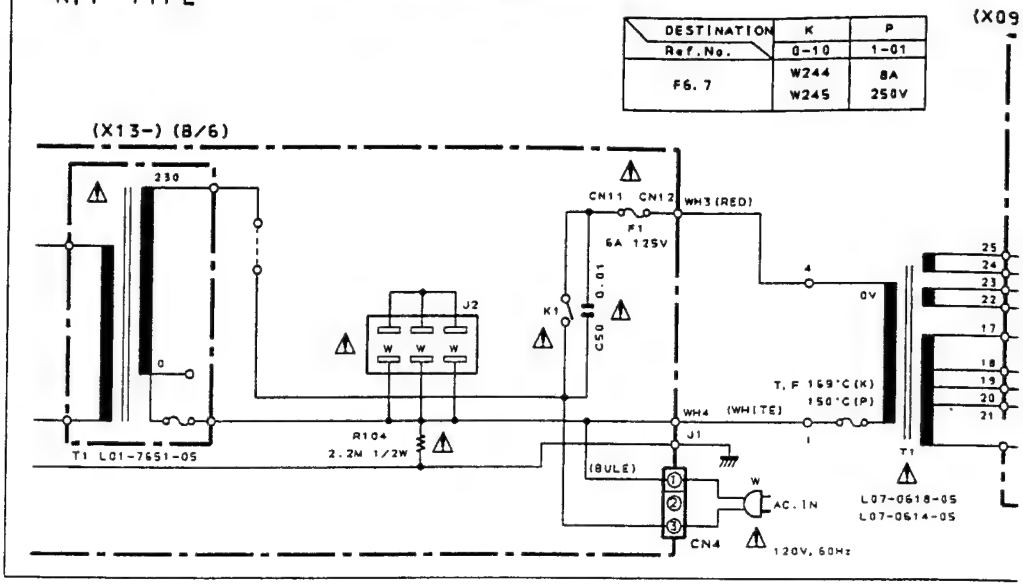
X13-719X-XX

IC1	: μPD78044GF-021
IC2	: PST529C
IC3	: NJM4565L
Q1, 2	: 2SC1740S (Q, R) or 2SC2785 (F, E)
Q3	: 2SA933S (Q, R) or 2SA1175 (F, E)
Q4	: 2SC2003 (L, K)
Q5	: 2SC3940A (R, S)
D1	: B30-1291-05
D2~18	: HSS104 or ISS133
31~35, 44	
D19	: HZS2.7N (B2) or RD2.7ES (B2)
D20	: HZS5.1N (B2) or RD5.1ES (B2)
D40~43	: S5688B or ISR139-100
D45	: HZS6.2N (B2) or RD6.2ES (B2)
ED1	: 10-MT-58GK
A1	: W02-1129-05 or W02-1046-05



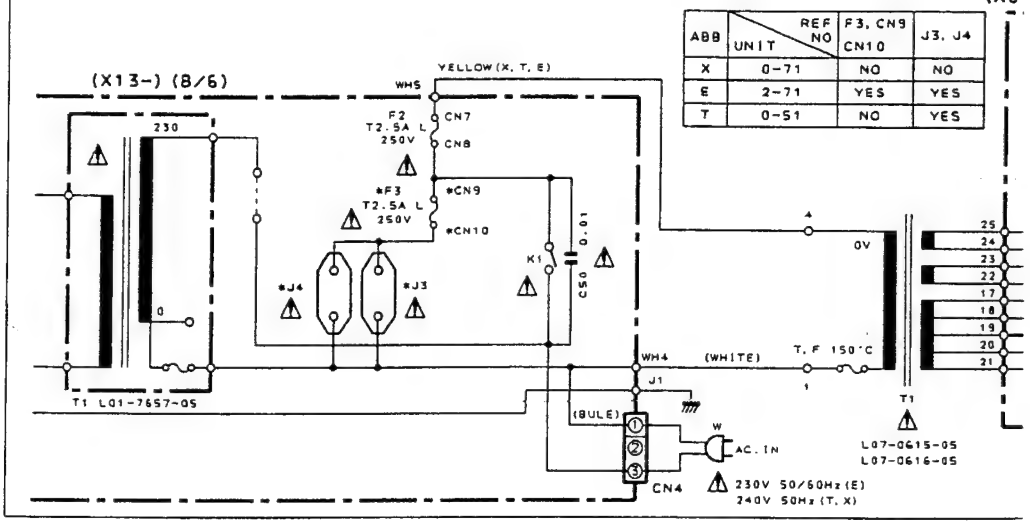
K, P TYPE

DESTINATION / Ref.No.	K	P
F6, 7	0-10 W244 W245	1-01 8A 250V



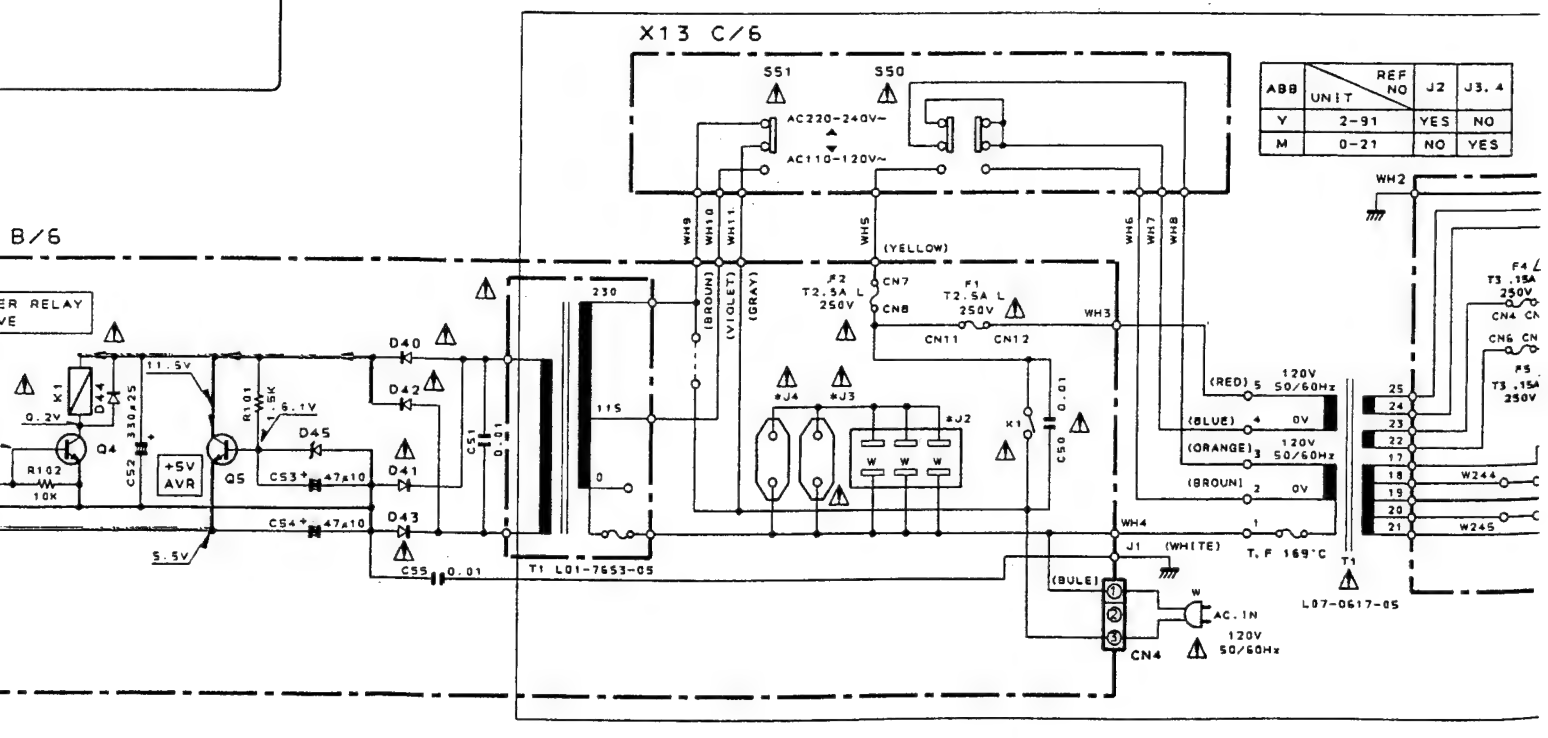
E, T, X TYPE

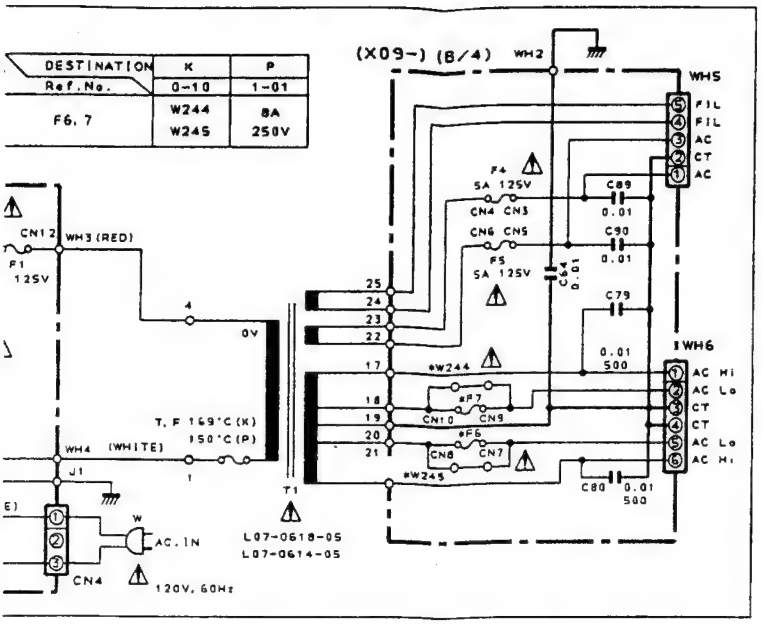
ABB / UNIT / REF NO	F3, CN9 CN10	J3, J4
X 0-71	NO	NO
E 2-71	YES	YES
T 0-51	NO	YES

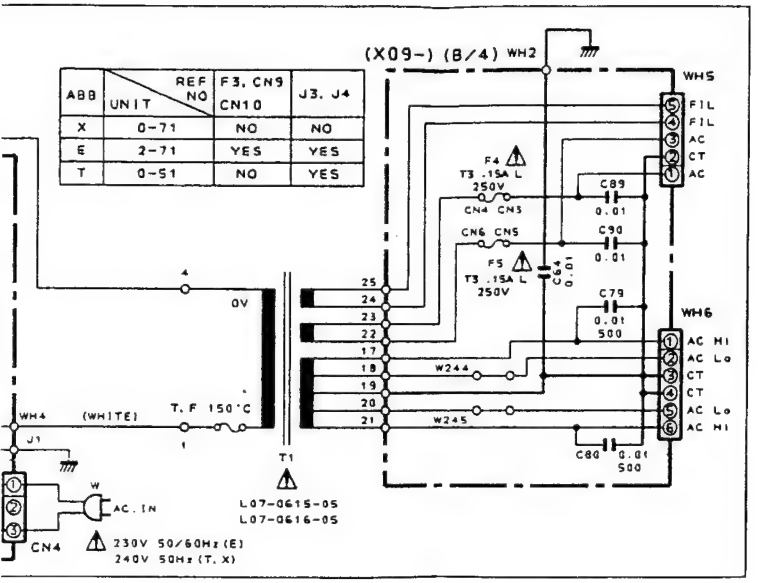


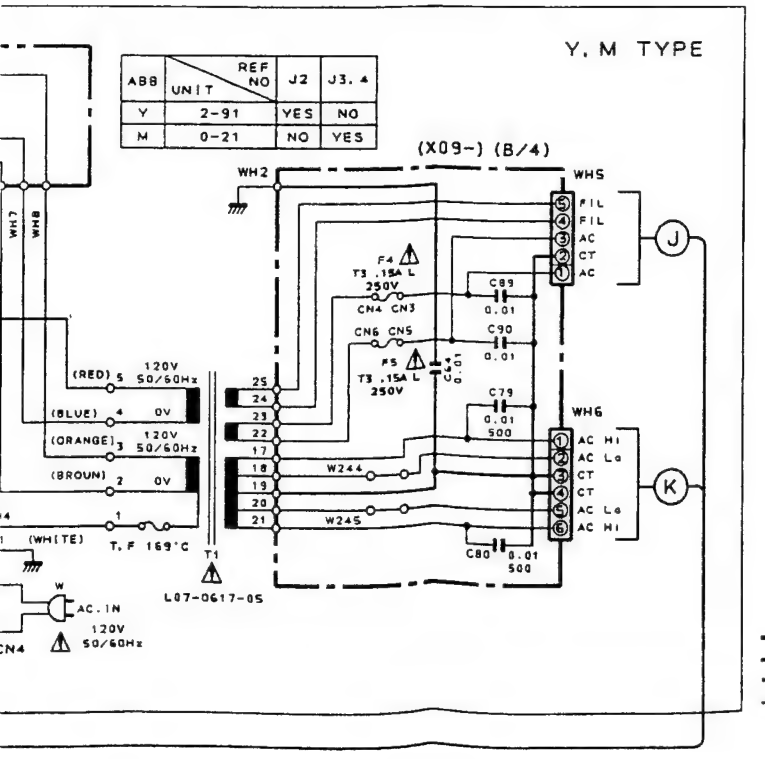
X13 C/6

ABB / UNIT / REF NO	J2	J3, 4
Y 2-91	YES	NO
M 0-21	NO	YES









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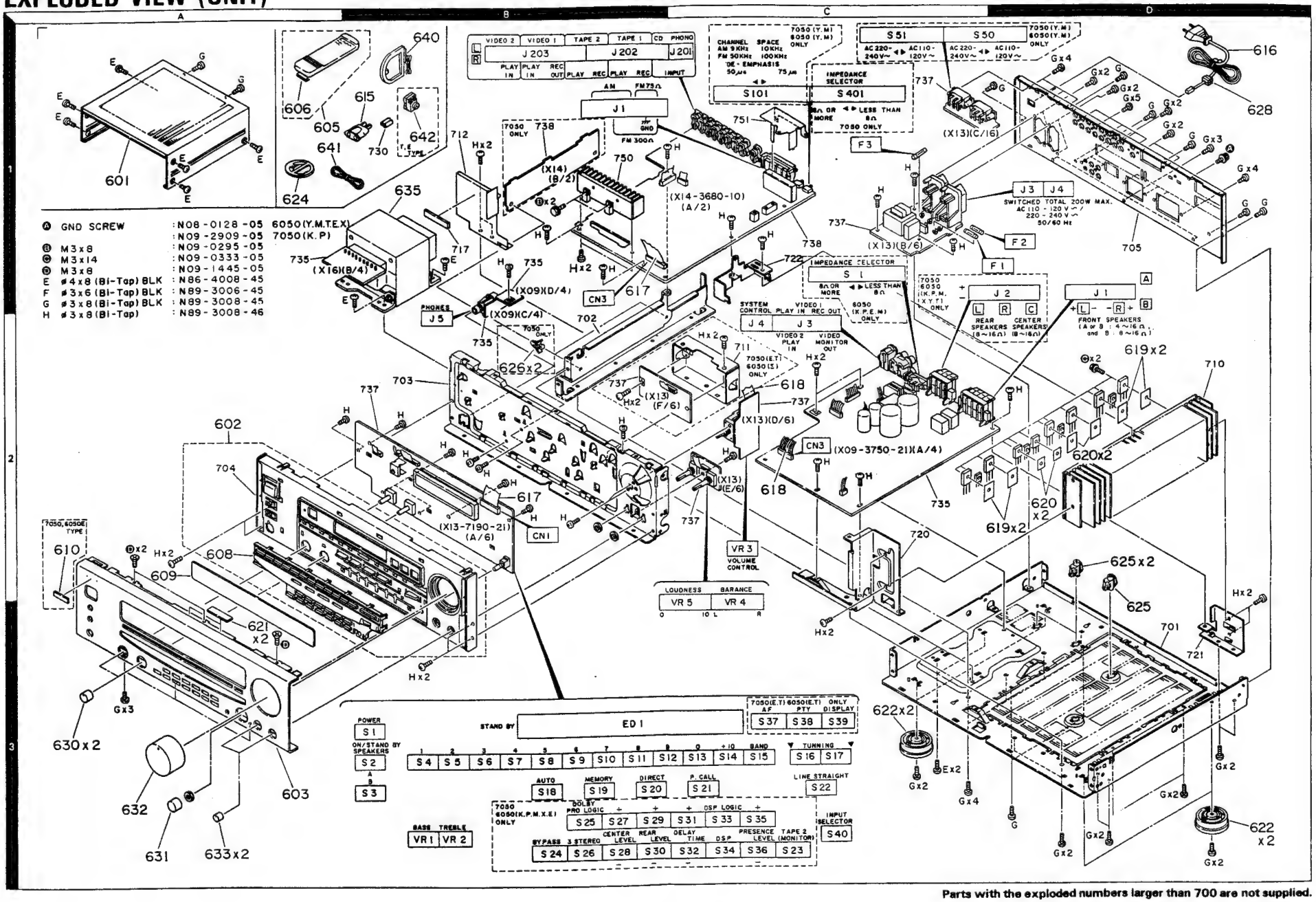
+B LINE
-B LINE
SIGNAL LINE
GND LINE

KR-V7050

KENWOOD

Y05-2700-10

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

UNIT LIST

	Singapore made	Malaysia made
Audio unit	X09-3750-11 (K) X09-3751-02 (P) X09-3750-22 (Y, M, X, T) X09-3752-72 (E) X09-3750-11 (KWW) X09-3751-02 (PWW)	X09-3750-11 (K) X09-3751-02 (P)
Accessory unit	X13-7200-10 (K, P) X13-7202-91 (Y) X13-7200-21 (M) X13-7200-71 (X) X13-7202-71 (E) X13-7200-10 (T) X13-7200-11 (KWW) X13-7200-10 (PWW)	X13-7200-10 (K, P)
Receiver unit	X14-3680-11 (K, P) X14-3680-22 (Y, M) X14-3680-72 (X) X14-3682-72 (E) X14-3680-51 (T) X14-3680-11 (KWW, PWW)	X14-3680-11 (K, P)

KR-V6050/7050

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KR-V6050 (SINGAPORE MADE)						
601	1A	*	A01-2998-11	METALLIC CABINET		
602	2A	*	A22-1623-02	SUB PANEL ASSY	KPYMX	
602	2A	*	A22-1624-02	SUB PANEL ASSY	E	
602	2A	*	A22-1635-02	SUB PANEL ASSY	T	
603	3A	*	A60-0314-02	PANEL	KPYMXT	
603	3A	*	A60-0315-02	PANEL	E	
605	1A	*	A70-0925-05	REMOTE CONTROLLER ASSY	KPYMXT	
605	1A	*	A70-0926-05	REMOTE CONTROLLER ASSY	E	
606	1A		A09-0106-08	BATTERY COVER		
608	2A	*	B07-2243-02	ESCUTCHEON	KPYMXT	
608	2A	*	B07-2244-02	ESCUTCHEON	E	
609	2A	*	B10-1945-23	FRONT GLASS	KPYMX	
609	2A	*	B10-1947-23	FRONT GLASS	TE	
610	2A		B43-0287-04	KENWOOD BADGE	E	
-			B46-0092-23	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-1009-00	INSTRUCTION MANUAL (ENGLISH)	KPYMX	
-		*	B60-1010-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-1011-00	INSTRUCTION MANUAL (SPA,CHI)	M	
-		*	B60-1012-00	INSTRUCTION MANUAL (GE,DU,IT)	E	
-		*	B60-1183-00	INSTRUCTION MANUAL (ENGLISH)	E	
-		*	B60-1196-00	INSTRUCTION MANUAL (ENGLISH)	T	
⚠ 615	1B		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 616	1D		E30-2592-15	AC POWER CORD	ME	
⚠ 616	1D		E30-2605-05	AC POWER CORD	Y	
⚠ 616	1D		E30-2650-05	AC POWER CORD	KP	
⚠ 616	1D		E30-2717-05	AC POWER CORD	X	
⚠ 616	1D		E30-2721-05	AC POWER CORD	T	
617	1B,2B		E31-7966-05	FLAT CABLE X13(CN1)-X14(CN3)	KPX	
617	1B,2B		E35-0019-05	FLAT CABLE X13(CN1)-X14(CN3)	YMTE	
618	2C	*	E35-0416-15	FLAT CABLE X09(CN1)-X13(CN5)		
619	2D		F20-1284-05	INSULATING BOARD		
620	2D		F20-1297-05	INSULATING SHEET	KPYMXT	
621	3A		G11-1098-04	SOFT TAPE		
		*	H50-0476-04	ITEM CARTON CASE	KPYXE	
		*	H50-0477-04	ITEM CARTON CASE	M	
		*	H50-0661-04	ITEM CARTON CASE	T	
-		*	H10-5387-02	POLYSTYRENE FOAMED FIXTURE	KPYMXE	
-		*	H10-5388-02	POLYSTYRENE FOAMED FIXTURE	KPYMXE	
-		*	H10-5472-02	POLYSTYRENE FOAMED FIXTURE	T	
-		*	H10-5473-02	POLYSTYRENE FOAMED FIXTURE	T	
-		*	H13-0118-04	CARTON BOARD	X	
-			H25-0225-04	PROTECTION BAG (850X450X0.03)	KPYMXE	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0654-04	PROTECTION BAG (0225 PRINTED)	T	
622	3C,3D		J02-1013-05	FOOT	KPYMX	
622	3C,3D		J02-1034-05	FOOT	TE	
624	1A		J19-2815-04	ANTENNA HOLDER		
625	2D,3D		J19-3180-05	UNIT HOLDER		
⚠ 628	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	3A	*	K29-5611-04	KNOB BASS,TREBLE		
631	3A	*	K29-5612-04	KNOB INPUT SELECTOR		
632	3A	*	K29-5613-04	KNOB VOLUME		
633	3A	*	K29-5672-04	KNOB LOUDNESS,BALANCE		
⚠ 635	1B	*	L07-0614-05	POWER TRANSFORMER	P	
⚠ 635	1B	*	L07-0615-05	POWER TRANSFORMER	E	
⚠ 635	1B	*	L07-0616-05	POWER TRANSFORMER	XT	
⚠ 635	1B	*	L07-0617-05	POWER TRANSFORMER	YM	
⚠ 635	1B	*	L07-0618-05	POWER TRANSFORMER	K	
A	1D		N08-0128-35	BINDING POST (EARTH)	YMXTE	
A	1D		N09-2909-05	TAPTITE SCREW (EARTH)	KP	
C	2D		N09-0333-05	TAPPING SCREW (3X12)		
D	2A,3A		N09-1445-05	SET SCREW (M3X8)		
E	1A,3C		N86-4008-45	BINDING HEAD TAPTITE SCREW		
G	1A,1D		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	1B,2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
640	1B		T90-0174-05	LOOP ANTENNA		
641	1A		T90-0175-05	T TYPE ANTENNA		
642	1B		T90-0185-05	ANTENNA ADAPTOR	TE	
KR-V6050 (MALAYSIA MADE)						
601	1A	*	A01-2998-11	METALLIC CABINET		
602	2A	*	A22-1623-02	SUB PANEL ASSY		
603	3A	*	A60-0314-02	PANEL		
605	1A	*	A70-0925-05	REMOTE CONTROLLER ASSY		
606	1A		A09-0106-08	BATTERY COVER		
608	2A	*	B07-2243-02	ESCUTCHEON		
609	2A	*	B10-1945-23	FRONT GLASS		
-			B46-0092-23	WARRANTY CARD	K	
-			B46-0121-23	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-		*	B60-1009-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1010-00	INSTRUCTION MANUAL (FRENCH)	P	
⚠ 616	1D		E30-2650-05	AC POWER CORD		
617	1B,2B		E31-7966-05	FLAT CABLE X13(CN1)-X14(CN3)		
618	2C	*	E35-0416-15	FLAT CABLE X09(CN1)-X13(CN5)		
619	2D		F20-1284-05	INSULATING BOARD		
620	2D		F20-1297-05	INSULATING SHEET		
621	3A		G11-1098-04	SOFT TAPE		
		*	H50-0662-04	ITEM CARTON CASE		
-		*	H10-5512-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5513-02	POLYSTYRENE FOAMED FIXTURE R		
-			H25-0225-04	PROTECTION BAG (850X450X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		

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KR-V6050/7050

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
622	3C,3D		J02-1013-05	FOOT		
624	1A		J19-2815-04	ANTENNA HOLDER		
625	2D,3D		J19-3180-05	UNIT HOLDER		
628	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	3A	*	K29-5611-04	KNOB BASS,TREBLE		
631	3A	*	K29-5612-04	KNOB INPUT SELECTOR		
632	3A	*	K29-5613-04	KNOB VOLUME		
633	3A	*	K29-5672-04	KNOB LOUDNESS,BALANCE		
⚠ 635	1B	*	L07-0614-05	POWER TRANSFORMER	P	
⚠ 635	1B	*	L07-0618-05	POWER TRANSFORMER	K	
A	1D		N09-2909-05	TAPTITE SCREW (EARTH)		
C	2D		N09-0333-05	TAPPING SCREW (3X12)		
D	2A,3A		N09-1445-05	SET SCREW (M3X8)		
E	1A,3C		N86-4008-45	BINDING HEAD TAPTITE SCREW		
G	1A,1D		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	1B,2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
640	1B		T90-0174-05	LOOP ANTENNA		
641	1A		T90-0175-05	T TYPE ANTENNA		
KR-V7050 (SINGAPORE MADE)						
601	1A	*	A01-2998-11	METALLIC CABINET		
602	2A	*	A22-1621-02	SUB PANEL ASSY	KPYMX	
602	2A	*	A22-1622-02	SUB PANEL ASSY	TE	
603	3A	*	A60-0312-02	PANEL		
605	1A	*	X94-1010-91	REMOTE CONTROL ASSY UNIT	KPYMX	
605	1A	*	X94-1011-11	REMOTE CONTROL ASSY UNIT	TE	
606	1A		A09-0126-03	BATTERY COVER		
608	2A	*	B07-2230-02	ESCUTCHEON		
609	2A	*	B10-1945-23	FRONT GLASS	KPYMX	
609	2A	*	B10-1947-23	FRONT GLASS	TE	
610	2A		B43-0287-04	KENWOOD BADGE		
-			B46-0092-23	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-1002-00	INSTRUCTION MANUAL (ENGLISH)	KPYMX	
-		*	B60-1003-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-1004-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-1005-00	INSTRUCTION MANUAL (GE,DU,IT)	E	
-		*	B60-1006-00	INSTRUCTION MANUAL (SPANISH)	ME	
-		*	B60-1184-00	INSTRUCTION MANUAL (ENGLISH)	TE	
⚠ 615	1B		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 616	1D		E30-2592-15	AC POWER CORD	ME	
⚠ 616	1D		E30-2605-05	AC POWER CORD	Y	
⚠ 616	1D		E30-2650-05	AC POWER CORD	KP	
⚠ 616	1D		E30-2717-05	AC POWER CORD	X	
⚠ 616	1D		E30-2721-05	AC POWER CORD	T	

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617	1B,2B		E31-7966-05	FLAY CABLE X13(CN1)-X14(CN3)	KPX	
617	1B,2B		E35-0019-05	FLAT CABLE X13(CN1)-X14(CN3)	YMTE	
618	2C	*	E35-0416-15	FLAT CABLE X09(CN1)-X13(CN5)		
619	2D		F20-1284-05	INSULATING BOARD		
620	2D		F20-1297-05	INSULATING SHEET		
621	3A		G11-1098-04	SOFT TAPE		
		*	H50-0474-04	ITEM CARTON CASE	KPYXE	
		*	H50-0475-04	ITEM CARTON CASE	M	
		*	H50-0490-04	ITEM CARTON CASE	T	
-		*	H10-5387-02	POLYSTYRENE FOAMED FIXTURE	KPYMXE	
		*	H10-5388-02	POLYSTYRENE FOAMED FIXTURE	KPYMXE	
		*	H10-5472-02	POLYSTYRENE FOAMED FIXTURE	T	
		*	H10-5473-02	POLYSTYRENE FOAMED FIXTURE	T	
		*	H13-0118-04	CARTON BOARD	X	
			H25-0225-04	PROTECTION BAG (850X450X0.03)	KPYMXE	
			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0654-04	PROTECTION BAG (0225 PRINTED)	T	
622	3C,3D		J02-1013-05	FOOT REAR	KP	
622	3C,3D		J02-1024-05	FOOT FRONT	KP	
622	3C,3D		J02-1034-05	FOOT	YMXTE	
624	1A		J19-2815-04	ANTENNA HOLDER		
625	2D,3D		J19-3180-05	UNIT HOLDER		
626	2B		J19-3323-05	UNIT HOLDER		
628	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	3A	*	K29-5611-04	KNOB BASS,TREBLE		
631	3A	*	K29-5612-04	KNOB INPUT SELECTOR		
632	3A	*	K29-5613-04	KNOB VOLUME		
633	3A	*	K29-5672-04	KNOB LOUDNESS,BALANCE		
635	1B	*	L07-0614-05	POWER TRANSFORMER	P	
635	1B	*	L07-0615-05	POWER TRANSFORMER	E	
635	1B	*	L07-0616-05	POWER TRANSFORMER	XT	
635	1B	*	L07-0617-05	POWER TRANSFORMER	YM	
635	1B	*	L07-0618-05	POWER TRANSFORMER	K	
A	1D		N08-0128-35	BINDING POST (EARTH)	YMXTE	
A	1D		N09-2909-05	TAPTITE SCREW (EARTH)	KP	
C	2D		N09-0333-05	TAPPING SCREW (3X12)		
D	2A,3A		N09-1445-05	SET SCREW (M3X8)		
E	1A,3C		N86-4008-45	BINDING HEAD TAPTITE SCREW		
G	1A,1D		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	1B,2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
640	1B		T90-0174-05	LOOP ANTENNA		
641	1A		T90-0175-05	T TYPE ANTENNA		
642	1B		T90-0185-05	ANTENNA ADAPTOR	TE	
KR-V7050 (MALAYSIA MADE)						
601	1A	*	A01-2998-11	METALLIC CABINET		
602	2A	*	A22-1621-02	SUB PANEL ASSY		
603	3A	*	A60-0312-02	PANEL		
605	1A	*	X94-1010-91	REMOTE CONTROL ASSY UNIT		
606	1A		A09-0126-03	BATTERY COVER		

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608	2A	*	B07-2230-02	ESCUTCHEON		
609	2A	*	B10-1945-23	FRONT GLASS		
610	2A		B43-0287-04	KENWOOD BADGE		
-			B46-0092-23	WARRANTY CARD	K	
-			B46-0121-23	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-		*	B60-1002-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1003-00	INSTRUCTION MANUAL (FRENCH)	P	
616	1D		E30-2650-05	AC POWER CORD		
617	1B,2B		E31-7966-05	FLAT CABLE X13(CN1)-X14(CN3)		
618	2C	*	E35-0416-15	FLAT CABLE X09(CN1)-X13(CN5)		
619	2D		F20-1284-05	INSULATING BOARD		
620	2D		F20-1297-05	INSULATING SHEET		
621	3A		G11-1098-04	SOFT TAPE		
		*	H50-0663-04	ITEM CARTON CASE		
-		*	H10-5512-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5513-02	POLYSTYRENE FOAMED FIXTURE R		
-			H25-0225-04	PROTECTION BAG (850X450X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
622	3C,3D		J02-1013-05	FOOT REAR		
622	3C,3D		J02-1024-05	FOOT FRONT		
624	1A		J19-2815-04	ANTENNA HOLDER		
625	2D,3D		J19-3180-05	UNIT HOLDER		
626	2B		J19-3323-05	UNIT HOLDER		
628	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	3A	*	K29-5611-04	KNOB BASS,TREBLE		
631	3A	*	K29-5612-04	KNOB INPUT SELECTOR		
632	3A	*	K29-5613-04	KNOB VOLUME		
633	3A	*	K29-5672-04	KNOB LOUDNESS,BALANCE		
635	1B	*	L07-0614-05	POWER TRANSFORMER	P	
635	1B	*	L07-0618-05	POWER TRANSFORMER	K	
A	1D		N09-2909-05	TAPTITE SCREW (EARTH)		
C	2D		N09-0333-05	TAPPING SCREW (3X12)		
D	2A,3A		N09-1445-05	SET SCREW (M3X8)		
E	1A,3C		N86-4008-45	BINDING HEAD TAPTITE SCREW		
G	1A,1D		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	1B,2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
640	1B		T90-0174-05	LOOP ANTENNA		
641	1A		T90-0175-05	T TYPE ANTENNA		
AUDIO UNIT (X09-375X-XX)						
C1 ,2			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C3 -8			CC45FSL1H101J	CERAMIC 100PF J		
C9 ,10			CE04LW0J221M	ELECTRO 220UF 6.3WV		
C11 ,12			CC45FSL1H100D	CERAMIC 10PF D		
C13 ,14			CE04LW2A010M	ELECTRO 1.0UF 100WV		
C15 ,16			CC45FSL1H221J	CERAMIC 220PF J		
C17 ,18			CC45FSL1H020C	CERAMIC 2.0PF C		
C19 ,20			CC45FSL1H470J	CERAMIC 47PF J		
C21 -24			CK45FF1H103Z	CERAMIC 0.010UF Z		
C25 -28			CF92FV1H224J	MF 0.22UF J	E	6

L:Scandinavia K:USA P:Canada
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C25 -28			CF92FV1H224J	MF	0.22UF	J	TE	7
C25 ,26			CQ92FM1H104J	MYLAR	0.10UF	J	KPYMX	7
C25 ,26			CQ92FM1H104J	MYLAR	0.10UF	J	KPYMXT	6
C29			CC45FSL1H101J	CERAMIC	100PF	J		7
C30			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C31 ,32			CE04LW1H010M	ELECTRO	1.0UF	50WV		7
C31 ,32			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPYMXT	6
C33 -38			CC45FSL1H101J	CERAMIC	100PF	J		7
C33 -38			CC45FSL1H101J	CERAMIC	100PF	J	KPYMXT	6
C39 ,40			CE04LW1A470M	ELECTRO	47UF	10WV		7
C39 ,40			CE04LW1A470M	ELECTRO	47UF	10WV	KPYMXT	6
C41 ,42			CC45FSL1H680J	CERAMIC	68PF	J		7
C41 ,42			CC45FSL1H680J	CERAMIC	68PF	J	KPYMXT	6
C43 ,44			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C45 ,46			CC45FSL1H221J	CERAMIC	220PF	J		7
C45 ,46			CC45FSL1H221J	CERAMIC	220PF	J	KPYMXT	6
C47 ,48			CC45FSL1H020C	CERAMIC	2.0PF	C		7
C47 ,48			CC45FSL1H020C	CERAMIC	2.0PF	C	KPYMXT	6
C49			CC45FSL1H680J	CERAMIC	68PF	J		7
C49			CC45FSL1H680J	CERAMIC	68PF	J	KPYMXT	6
C50			CC45FSL1H151J	CERAMIC	150PF	J		7
C50			CC45FSL1H151J	CERAMIC	150PF	J	KPYMXT	6
C51 -54			CK45FF1H103Z	CERAMIC	0.010UF	Z		7
C51 -54			CK45FF1H103Z	CERAMIC	0.010UF	Z	KPYMXT	6
C55 -58			CF92FV1H224J	MF	0.22UF	J	TE	7
C55 ,56			CQ92FM1H104J	MYLAR	0.10UF	J	KPYMXT	6
C59			CE04LW2A100M	ELECTRO	10UF	100WV		
C60			CE04LW2A470M	ELECTRO	47UF	100WV		
C61 ,62			CE04LW1V470M	ELECTRO	47UF	35WV		7
C61 ,62			CE04LW1V470M	ELECTRO	47UF	35WV	KPYMXT	6
C63			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C64			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C65			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C66			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C67 ,68			CE04LW1A101M	ELECTRO	100UF	10WV		6
C69			CE04LW1C101M	ELECTRO	100UF	16WV		
C70			CE04LW1C470M	ELECTRO	47UF	16WV		
C71			CE04LW1C101M	ELECTRO	100UF	16WV		
C72			CE04LW1A470M	ELECTRO	47UF	10WV		
C73			CE04LW1C220M	ELECTRO	22UF	16WV		
C74			CE04LW2A2R2M	ELECTRO	2.2UF	100WV		6
C75			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		6
C76			CE04LW1V220M	ELECTRO	22UF	35WV		
C77 ,78			CE04LW1V100M	ELECTRO	10UF	35WV		
C79 ,80			CK45FE2H103P	CERAMIC	0.010UF	P		
C81 ,82		*	C90-3490-05	ELECTRO	6800UF	71WV		
C83 ,84			CE04LW1V222M	ELECTRO	2200UF	35WV		
C85 ,86			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C87 -90			CK45FF1H103Z	CERAMIC	0.010UF	Z		7
C89 ,90			CK45FF1H103Z	CERAMIC	0.010UF	Z		6
C91			CE04LW1J470M	ELECTRO	47UF	63WV		
C92			CE04LW1V101M	ELECTRO	100UF	35WV		
C93 -96			CK45FF1H472Z	CERAMIC	4700PF	Z	E	6
C93 -96			CK45FF1H472Z	CERAMIC	4700PF	Z	TE	7
C97 ,98			CK45FB1H102K	CERAMIC	1000PF	K		

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C99			CK45FF1H472Z	CERAMIC 4700PF Z	TE	7
C100			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	7
C101,102			CK45FB1H102K	CERAMIC 1000PF K		7
C101,102			CK45FB1H102K	CERAMIC 1000PF K	KPYMXT	6
C103,104			CC45FSL1H561J	CERAMIC 560PF J	E	6
C103,104			CC45FSL1H561J	CERAMIC 560PF J	TE	7
C105,106			CK45FF1H103Z	CERAMIC 0.010UF Z		
C107-110			CC45FSL1H101J	CERAMIC 100PF J	E	6
C107-110			CC45FSL1H101J	CERAMIC 100PF J	TE	7
C111,112			CE04LW1A470M	ELECTRO 47UF 10WV		
C114			CK45FF1H103Z	CERAMIC 0.010UF Z		
C115,116			CE04LW0J221M	ELECTRO 220UF 6.3WV		
C117			CK45FF1H223Z	CERAMIC 0.022UF Z		6
C118			C91-0749-05	CERAMIC 220PF K		6
C119,120			CK45FF1H103Z	CERAMIC 0.010UF Z		
CN1	2C		E40-4159-05	FLAT CABLE CONNCTOR		
J1			E70-0020-05	LOCK TERMINAL BOARD SPEAKERS	KPYMX	7
J1			E70-0020-05	LOCK TERMINAL BOARD SPEAKERS	KPYMXT	6
J1			E70-0029-05	SCREW TERMINAL BOARD SPEAKERS	E	6
J1			E70-0029-05	SCREW TERMINAL BOARD SPEAKERS	TE	7
J2			E70-0014-05	LOCK TERMINAL BOARD CEN,REA SP		7
J2			E70-0014-05	LOCK TERMINAL BOARD CEN,REA SP	KPYMXT	6
J3		*	E63-0069-05	PHONO JACK MONI,VIDEO 1,2		
J4			E11-0188-05	MINIATURE PHONE JACK SYNCHRO		
J5			E11-0207-05	PHONE JACK HEAD PHONES	KPYMXT	6
J5			E11-0208-05	PHONE JACK HEAD PHONES	E	6
J5			E11-0208-05	PHONE JACK HEAD PHONES		7
⚠ F4 ,5			F04-5022-05	FUSE (UL) (125V 5A UL)	KP	
⚠ F4 ,5			F05-3121-05	FUSE (SEMKO) (250V T3.15A)	YMXTE	
⚠ F6 ,7			F05-8029-05	FUSE (UL) (250V 8A)	P	
CN3 -6			J13-0075-05	FUSE CLIP		
CN7 -10			J13-0041-05	FUSE CLIP	P	
J8			J11-0098-05	WIRE CLAMPER		6
L1 -3			L39-0085-05	PHASE COMPENSATION COIL	KPYMX	7
L1 -3			L39-0085-05	PHASE COMPENSATION COIL	KPYMXT	6
L1 -4			L39-0085-05	PHASE COMPENSATION COIL	TE	7
L1 ,2			L39-0085-05	PHASE COMPENSATION COIL	E	6
CP1 -3			R90-0840-05	COMPOSITE ELEMENTS		7
CP1 -3			R90-0840-05	COMPOSITE ELEMENTS	KPYMXT	6
CP1 ,2			R90-0840-05	COMPOSITE ELEMENTS	E	6
R15 ,16			RD14NB2E221J	RD 220 J 1/4W		
R21 ,22			RD14NB2E121J	RD 120 J 1/4W		
R23 ,24			RD14NB2E221J	RD 220 J 1/4W		
R31 -34			RD14NB2E220J	RD 22 J 1/4W		
R37 ,38			RD14NB2E332J	RD 3.3K J 1/4W		
R41 ,42			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R56			RD14NB2E4R7J	RD 4.7 J 1/4W		
R75 ,76			RD14NB2E221J	RD 220 J 1/4W		7
R75 ,76			RD14NB2E221J	RD 220 J 1/4W	KPYMXT	6
R81 ,82			RD14NB2E121J	RD 120 J 1/4W		7
R81 ,82			RD14NB2E121J	RD 120 J 1/4W	KPYMXT	6
R83 ,84			RD14NB2E221J	RD 220 J 1/4W		7
R83 ,84			RD14NB2E221J	RD 220 J 1/4W	KPYMXT	6

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R91 -94			RD14NB2E220J	RD 22 J 1/4W		7
R91 -94			RD14NB2E220J	RD 22 J 1/4W	KPYMXT	6
R97			RD14NB2E392J	RD 3.9K J 1/4W		7
R97			RD14NB2E392J	RD 3.9K J 1/4W	KPYMXT	6
R98			RD14NB2E822J	RD 8.2K J 1/4W		7
R98			RD14NB2E822J	RD 8.2K J 1/4W	KPYMXT	6
R101,102			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		7
R101,102			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W	KPYMXT	6
R118			RD14NB2E101J	RD 100 J 1/4W		
R120			RD14NB2E4R7J	RD 4.7 J 1/4W		6
R142			RD14NB2E680J	RD 68 J 1/4W		
R152			R92-0203-05	METAL-PLATE 0.47 K 5W		7
R152			R92-0203-05	METAL-PLATE 0.47 K 5W	KPYMXT	6
R158			RD14NB2E101J	RD 100 J 1/4W		
R161			RD14NB2E470J	RD 47 J 1/4W		
R162			RD14NB2E101J	RD 100 J 1/4W		
R163			RD14NB2E470J	RD 47 J 1/4W		7
R163			RD14NB2E470J	RD 47 J 1/4W	KPYMXT	6
R164			RD14NB2E101J	RD 100 J 1/4W		7
R164			RD14NB2E101J	RD 100 J 1/4W	KPYMXT	6
R165,166			RS14KB3A561J	FL-PROOF RS 560 J 1W		
R167			RS14KB3A121J	FL-PROOF RS 120 J 1W		7
R168-170			RS14KB3A221J	FL-PROOF RS 220 J 1W		7
R168-170			RS14KB3A221J	FL-PROOF RS 220 J 1W	KPYMXT	6
R169,170			RS14KB3A221J	FL-PROOF RS 220 J 1W	E	6
R171,172			RS14KB3A391J	FL-PROOF RS 390 J 1W		
R176			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R186			RD14NB2E222J	RD 2.2K J 1/4W		
VR1 -3			R12-1617-05	TRIMMING POT.(2.2K) IDL ADJ		7
VR1 ,2			R12-1618-05	TRIMMING POT.(3.3K) IDL ADJ		6
VR3			R12-1617-05	TRIMMING POT.(2.2K) IDL ADJ	KPYMXT	6
K1 ,2			S51-2078-05	MAGNETIC RELAY		
K1 ,2			S51-2092-05	MAGNETIC RELAY		
K3			S76-0005-05	MAGNETIC RELAY		7
K3			S76-0005-05	MAGNETIC RELAY	KPYMXT	6
K4			S76-0016-05	MAGNETIC RELAY		7
K4			S76-0017-05	MAGNETIC RELAY		7
S1			S31-2136-05	SLIDE SWITCH IMPEDANCE SELECT		6
D1 ,2			HSS104A	DIODE		
D1 ,2			1SS131	DIODE		
D3 ,4			HZS11N(B2)	ZENER DIODE		7
D3 ,4			RD11ES(B2)	ZENER DIODE		7
D5 ,6			HZS13N(B2)	ZENER DIODE		7
D5 ,6			RD13ES(B2)	ZENER DIODE		7
D7 -18			HSS104A	DIODE		7
D7 -18			1SS131	DIODE		7
D9 -18			HSS104A	DIODE	KPYMXT	6
D9 -18			1SS131	DIODE	KPYMXT	6
D9 ,10			HSS104A	DIODE	E	6
D9 ,10			1SS131	DIODE	E	6
D15 -18			HSS104A	DIODE	E	6
D15 -18			1SS131	DIODE	E	6
D19			HZS5.1N(B2)	ZENER DIODE		

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D19			RD5.1ES(B2)	ZENER DIODE		
D20 -22			HSS104A	DIODE	E	6
D20 -22			1SS131	DIODE	E	6
D20 -23			HSS104A	DIODE	KPYMXT	6
D20 -23			1SS131	DIODE	KPYMXT	6
D20 -24			HSS104A	DIODE		7
D20 -24			1SS131	DIODE		7
D25			HZS5.1N(B2)	ZENER DIODE		6
D25			RD5.1ES(B2)	ZENER DIODE		6
D26			HSS104A	DIODE		
D26			1SS131	DIODE		
D27			HZS4.7N(B2)	ZENER DIODE		
D27			RD4.7ES(B2)	ZENER DIODE		
D28			D3SBA20F03	DIODE		
D28			RBV-402LFA	DIODE		
D29			D5SBA20F03	DIODE		6
D29			RBV-602LFA	DIODE		6
D29 ,30			D5SBA20F03	DIODE		7
D29 ,30			RBV-602LFA	DIODE		7
D31 ,32			S5688B	DIODE		
D31 ,32			1SR139-100	DIODE		
D33			HZS15N(B2)	ZENER DIODE		
D33			RD15ES(B2)	ZENER DIODE		
D34			HZS16N(B2)	ZENER DIODE		
D34			RD16ES(B2)	ZENER DIODE		
D35 ,36			HSS104A	DIODE		
D35 ,36			1SS131	DIODE		
D37 ,38			HZS5.1N(B2)	ZENER DIODE		
D37 ,38			RD5.1ES(B2)	ZENER DIODE		
D39 -42			HSS104	DIODE	E	6
D39 -42			1SS133	DIODE	E	6
D39 -52			HSS104	DIODE		7
D39 -52			HSS104	DIODE	KPYMXT	6
D39 -52			1SS133	DIODE		7
D39 -52			1SS133	DIODE	KPYMXT	6
D45 -52			HSS104	DIODE	E	6
D45 -52			1SS133	DIODE	E	6
D53 ,54			HZS11N(B2)	ZENER DIODE		7
D53 ,54			RD11ES(B2)	ZENER DIODE		7
D55 ,56			HZS13N(B2)	ZENER DIODE		7
D55 ,56			RD13ES(B2)	ZENER DIODE		7
D57 -61			HSS104A	DIODE		7
D57 -61			1SS131	DIODE		7
D59 -63			HSS104A	DIODE		6
D59 -63			1SS131	DIODE		6
IC1			TA8409S	IC(MOTOR CONTROL)		
IC2		*	CXA1558L	IC		
Q1 -4			2SA992(F,E)	TRANSISTOR		
Q5 -8			2SC2631(R,S)	TRANSISTOR		
Q9 ,10			2SA1123(R,S)	TRANSISTOR		
Q11 ,12			2SC4137F19(V,W)	TRANSISTOR		
Q13 ,14			2SD2222BT	TRANSISTOR		
Q13 ,14		*	2SD2449LB	TRANSISTOR		
Q15 ,16			2SB1470BT	TRANSISTOR		
Q15 ,16		*	2SB1594LB	TRANSISTOR		

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Q17 ,18			2SC1845(F,E)	TRANSISTOR		7
Q19 ,20			2SA992(F,E)	TRANSISTOR		7
Q21			2SA1175(F,E)	TRANSISTOR		7
Q21			2SA933S(Q,R)	TRANSISTOR		7
Q22			2SC1740S(Q,R)	TRANSISTOR		7
Q22			2SC2785(F,E)	TRANSISTOR		7
Q23 ,24			2SC1845(F,E)	TRANSISTOR		
Q31 -34			2SA992(F,E)	TRANSISTOR		7
Q31 -34			2SA992(F,E)	TRANSISTOR	KPYMXT	6
Q35			2SC2631(R,S)	TRANSISTOR		7
Q35			2SC2631(R,S)	TRANSISTOR	KPYMXT	6
Q36			2SC1845(F,E)	TRANSISTOR		7
Q36			2SC1845(F,E)	TRANSISTOR	KPYMXT	6
Q37			2SC2631(R,S)	TRANSISTOR		7
Q37			2SC2631(R,S)	TRANSISTOR	KPYMXT	6
Q38			2SC1845(F,E)	TRANSISTOR		7
Q38			2SC1845(F,E)	TRANSISTOR	KPYMXT	6
Q39			2SA1123(R,S)	TRANSISTOR		7
Q39			2SA1123(R,S)	TRANSISTOR	KPYMXT	6
Q40			2SA992(F,E)	TRANSISTOR		7
Q40			2SA992(F,E)	TRANSISTOR	KPYMXT	6
Q41 ,42			2SC4137F19(V,W)	TRANSISTOR		7
Q41 ,42			2SC4137F19(V,W)	TRANSISTOR	KPYMXT	6
Q43			2SD2255BT	TRANSISTOR	K	
Q43			2SD2255BT*1	TRANSISTOR	K	
Q43		*	2SD2384LB	TRANSISTOR	PYMXT	6
Q43		*	2SD2384LB	TRANSISTOR	PYMXTE	7
Q44			2SD2340BT	TRANSISTOR	KPYMXT	6
Q44			2SD2340BT	TRANSISTOR		7
Q45			2SB1493BT	TRANSISTOR	K	
Q45			2SB1493BT*1	TRANSISTOR	K	
Q45		*	2SB1555LB	TRANSISTOR	PYMXT	6
Q45		*	2SB1555LB	TRANSISTOR	PYMXTE	7
Q46			2SB1531BT	TRANSISTOR	KPYMXT	6
Q46			2SB1531BT	TRANSISTOR		7
Q47 -50			2SC1845(F,E)	TRANSISTOR		7
Q47 -50			2SC1845(F,E)	TRANSISTOR	KPYMXT	6
Q49 ,50			2SC1845(F,E)	TRANSISTOR	E	6
Q51			2SA992(F,E)	TRANSISTOR		
Q52			2SC1845(F,E)	TRANSISTOR		
Q53			2SC1740S(Q,R)	TRANSISTOR		
Q53			2SC2785(F,E)	TRANSISTOR		
Q55			2SA992(F,E)	TRANSISTOR		6
Q56 -58			2SC1740S(Q,R)	TRANSISTOR	KPYMXT	6
Q56 -58			2SC2785(F,E)	TRANSISTOR	KPYMXT	6
Q56 -61			2SC1740S(Q,R)	TRANSISTOR		7
Q56 -61			2SC2785(F,E)	TRANSISTOR		7
Q56 ,57			2SC1740S(Q,R)	TRANSISTOR	E	6
Q56 ,57			2SC2785(F,E)	TRANSISTOR	E	6
Q60 ,61			2SC1740S(Q,R)	TRANSISTOR		6
Q60 ,61			2SC2785(F,E)	TRANSISTOR		6
Q62			DTC124ES	DIGITAL TRANSISTOR		
Q62			UN4212	DIGITAL TRANSISTOR		
Q63			2SA1175(F,E)	TRANSISTOR		
Q63			2SA933S(Q,R)	TRANSISTOR		

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Q64 -67			2SC2878(B)	TRANSISTOR		7
Q64 -67			2SC2878(B)	TRANSISTOR	KPYMXT	6
Q65 ,66			2SC2878(B)	TRANSISTOR	E	6
Q68			2SA1534A	TRANSISTOR		
ACCESSORY UNIT (X13-719X-XX) : KR-V7050						
D1			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
C1			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C2			C91-0769-05	CERAMIC 0.01UF K	TE	
C3			C90-1827-05	BACKUP 0.047F 5.5WV		
C4			CE04LW1A101M	ELECTRO 100UF 10WV		
C5 ,6			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C7			CE04LW1C330M	ELECTRO 33UF 16WV		
C8			CE04LW1H330M	ELECTRO 33UF 50WV		
C9 -11			C91-0769-05	CERAMIC 0.01UF K		
C12 ,13			CF92FV1H223J	MF 0.022UF J		
C14			C91-0745-05	CERAMIC 100PF K	TE	
C21 ,22			CE04LW1C470M	ELECTRO 47UF 16WV		
C23 ,24			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C25 ,26			CF92FV1H473J	MF 0.047UF J		
C27 ,28			CC45FSL1H221J	CERAMIC 220PF J		
C29 -32			CC45FSL1H470J	CERAMIC 47PF J		
C33 ,34			C90-3253-05	ELECTRO 1UF 50WV		
C35			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C36			C90-3253-05	ELECTRO 1UF 50WV		
C37 -39			CE04LW1H100M	ELECTRO 10UF 50WV		
C40			C90-3225-05	ELECTRO 10UF 16WV		
⚠ C50			C91-1439-05	FILM 0.01UF 250VAC		
C51			CK45FF1H103Z	CERAMIC 0.010UF Z		
C52			CE04EW1E331M	ELECTRO 330UF 25WV		
C53 ,54			CE04LW1A470M	ELECTRO 47UF 10WV		
C55			CK45FF1H103Z	CERAMIC 0.010UF Z		
C63 ,64			CF92FV1H333J	MF 0.033UF J		
C65			CF92FV1H104J	MF 0.10UF J		
C201			CF92FV1H271K	MF 270PF K	TE	
C202			CE04LW1V100M	ELECTRO 10UF 35WV	TE	
C203,204			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
C205			CE04LW1V100M	ELECTRO 10UF 35WV	TE	
C206,207			CC45FCH1H270J	CERAMIC 27PF J	TE	
C208			CE04LW1V100M	ELECTRO 10UF 35WV	TE	
C209-211			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
CN1	2B		E40-4203-05	FLAT CABLE CONNCTOR	KPX	
CN1	2B		E40-4207-05	FLAT CABLE CONNCTOR	YMTE	
CN5	2C		E40-4199-05	FLAT CABLE CONNCTOR		
⚠ J2			E03-0111-05	AC OUTLET	KPY	
⚠ J3 ,4			E03-0108-05	AC OUTLET	ME	
⚠ J3 ,4			E03-0109-05	AC OUTLET	T	
⚠ F1			F05-6029-05	FUSE (UL) (125V 6A)	KP	
⚠ F1 ,2			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	YM	
⚠ F2			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	XT	
⚠ F2 ,3			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	E	
CN7 -10			J13-0075-05	FUSE CLIP	E	
CN7 ,8			J13-0075-05	FUSE CLIP	YMXT	
CN11,12			J13-0075-05	FUSE CLIP	KPYM	

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L1 -3			L40-1091-17	SMALL FIXED INDUCTOR(10UH,K)	KPYMX	
L201,202			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TE	
T1			L01-7651-05	POWER TRANSFORMER	KP	
T1			L01-7653-05	POWER TRANSFORMER	YM	
T1			L01-7657-05	POWER TRANSFORMER	XTE	
X1			L78-0267-05	RESONATOR 4.194MHz		
X201			L77-2002-05	CRYSTAL RESONATOR 4.332MHz	TE	
X202			L78-0503-05	RESONATOR 4.00MHz	TE	
CP1			R90-0492-05	MULTI-COMP 100KX8 J 1/6W		
R81 ,82			RD14NB2E101J	RD 100 J 1/4W		
R104			R92-0173-05	RC 2.2M M 1/2W	KP	
VR1 ,2		*	R10-3048-05	POTENTIOMETER(10KX2) BASS,TREB		
VR3		*	R29-5075-05	POTENTIOMETER(100KX4)VOLUME		
VR4		*	R05-5053-05	POTENTIOMETER(200K) BALANCE		
VR5		*	R10-5063-05	POTENTIOMETER(100KX2)LOUNDNESS		
K1			S76-0002-05	MAGNETIC RELAY		
S1 -36			S40-1064-05	PUSH SWITCH KEY BOARD	KPYMX	
S1 -39			S40-1064-05	PUSH SWITCH KEY BOARD	TE	
S50 ,51			S62-0001-05	SLIDE SWITCH VOLTAGE SELECTOR	YM	
S40			T99-0509-05	SPEED DETECTOR INPUT SELECTOR		
D2 -18			HSS104	DIODE		
D2 -18			1SS133	DIODE		
D19			HZS2.7N(B2)	ZENER DIODE		
D19			RD2.7ES(B2)	ZENER DIODE		
D20			HZS5.1N(B2)	ZENER DIODE		
D20			RD5.1ES(B2)	ZENER DIODE		
D31			HSS104	DIODE	KP	
D31			1SS133	DIODE	KP	
D32			HSS104	DIODE	X	
D32 ,33			HSS104	DIODE	TE	
D36			HSS104	DIODE	YM	
D40 -43			S5688B	DIODE		
D40 -43			1SR139-100	DIODE		
D44			HSS104	DIODE		
D44			1SS133	DIODE		
D45			HZS6.2N(B2)	ZENER DIODE		
D45			RD6.2ES(B2)	ZENER DIODE		
ED1		*	10-MT-58GK	INDICATOR TUBE		
IC1		*	UPD78044GF-021	IC(8BIT MICROPROCESSOR)		
IC2			PST529C	IC(SYSTEM RESET)		
IC3			NJM4565L	IC(OP AMP X2)		
IC201			TDA7330A	IC(RDS DEMODULATOR)	TE	
IC202			LC6543H-4600	IC	TE	
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		
Q1 ,2			2SC2785(F,E)	TRANSISTOR		
Q3			2SA1175(F,E)	TRANSISTOR	YM	
Q4			2SC2003(L,K)	TRANSISTOR		
Q5			2SC3940A(R,S)	TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		
A1			W02-1153-05	ELECTRIC CIRCUIT MODULE		
ACCESSORY UNIT (X13-720X-XX) KR-V6050						
D1			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		

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	C1			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
	C2			C91-0769-05	CERAMIC 0.01UF K	TE	
	C3			C90-1827-05	BACKUP 0.047F 5.5WV		
	C4			CE04LW1A101M	ELECTRO 100UF 10WV		
	C5 ,6			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
	C7			CE04LW1C330M	ELECTRO 33UF 16WV		
	C8			CE04LW1H330M	ELECTRO 33UF 50WV		
	C9 -11			C91-0769-05	CERAMIC 0.01UF K		
	C12 ,13			CF92FV1H223J	MF 0.022UF J		
	C14			C91-0745-05	CERAMIC 100PF K	TE	
	C21 ,22			CE04LW1C470M	ELECTRO 47UF 16WV		
	C23 ,24			CE04LW1H010M	ELECTRO 1.0UF 50WV		
	C25 ,26			CF92FV1H473J	MF 0.047UF J		
	C27 ,28			CC45FSL1H221J	CERAMIC 220PF J		
	C29 -32			CC45FSL1H470J	CERAMIC 47PF J		
	C33 ,34			C90-3253-05	ELECTRO 1UF 50WV		
	C35			CE04LW1H010M	ELECTRO 1.0UF 50WV		
	C36			C90-3253-05	ELECTRO 1UF 50WV		
	C37 -39			CE04LW1H100M	ELECTRO 10UF 50WV		
	C40			C90-3225-05	ELECTRO 10UF 16WV		
⚠	C50			C91-1439-05	FILM 0.01UF 250VAC		
	C51			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C52			CE04EW1E331M	ELECTRO 330UF 25WV		
	C53 ,54			CE04LW1A470M	ELECTRO 47UF 10WV		
	C55			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C63 ,64			CF92FV1H333J	MF 0.033UF J		
	C65			CF92FV1H104J	MF 0.10UF J		
	C201			CF92FV1H271K	MF 270PF K	TE	
	C202			CE04LW1V100M	ELECTRO 10UF 35WV	TE	
	C203,204			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
	C205			CE04LW1V100M	ELECTRO 10UF 35WV	TE	
	C206,207			CC45FCH1H270J	CERAMIC 27PF J	TE	
	C208			CE04LW1V100M	ELECTRO 10UF 35WV	TE	
	C209-211			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
	CN1	2B		E40-4203-05	FLAT CABLE CONNCTOR	KPX	
	CN1	2B		E40-4207-05	FLAT CABLE CONNCTOR	YMTE	
	CN5	2C		E40-4199-05	FLAT CABLE CONNCTOR		
⚠	J2			E03-0111-05	AC OUTLET	KPY	
⚠	J3 ,4			E03-0108-05	AC OUTLET	ME	
	J3 ,4			E03-0109-05	AC OUTLET	T	
⚠	F1			F05-6029-05	FUSE (UL) (125V 6A)	KP	
⚠	F1 ,2			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	YM	
⚠	F2			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	XT	
⚠	F2 ,3			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	E	
	CN7 -10			J13-0075-05	FUSE CLIP	E	
	CN7 ,8			J13-0075-05	FUSE CLIP	YMXT	
	CN11,12			J13-0075-05	FUSE CLIP	KPYM	
	L1 -3			L40-1091-17	SMALL FIXED INDUCTOR	KPYMX	
	L201,202			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TE	
⚠	T1			L01-7651-05	POWER TRANSFORMER	KP	
⚠	T1			L01-7653-05	POWER TRANSFORMER	YM	
⚠	T1			L01-7657-05	POWER TRANSFORMER	XTE	
	X1			L78-0267-05	RESONATOR 4.194MHz		

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X201			L77-2002-05	CRYSTAL RESONATOR 4.332MHz	TE	
X202			L78-0503-05	RESONATOR 4.00MHz	TE	
CP1			R90-0492-05	MULTI-COMP 100KX8 J 1/6W		
R81 ,82			RD14NB2E101J	RD 100 J 1/4W		
R104			R92-0173-05	RC 2.2M M 1/2W	KP	
VR1 ,2		*	R10-3048-05	POTENTIOMETER(10KX2) BASS,TREB		
VR3		*	R29-5075-05	POTENTIOMETER(100KX4)VOLUME		
VR4		*	R05-5053-05	POTENTIOMETER(200K) BALANCE		
VR5		*	R10-5063-05	POTENTIOMETER(100KX2)LOUNDNESS		
⚠ K1			S76-0002-05	MAGNETIC RELAY		
S1 -23			S40-1064-05	PUSH SWITCH KEY BOARD	E	
S1 -32			S40-1064-05	PUSH SWITCH KEY BOARD	KPYMXT	
S37 -39			S40-1064-05	PUSH SWITCH KEY BOARD	TE	
⚠ S50 ,51			S62-0001-05	SLIDE SWITCH VOLTAGE SELECTOR	YM	
S40			T99-0509-05	SPEED DETECTOR INPUT SELECTOR		
D2 -18			HSS104	DIODE		
D2 -18			1SS133	DIODE		
D19			HZS2.7N(B2)	ZENER DIODE		
D19			RD2.7ES(B2)	ZENER DIODE		
D20			HZS5.1N(B2)	ZENER DIODE		
D20			RD5.1ES(B2)	ZENER DIODE		
D31			HSS104	DIODE	KP	
D31			1SS133	DIODE	KP	
D32			HSS104	DIODE	X	
D32			1SS133	DIODE	X	
D32 -34			HSS104	DIODE	T	
D32 -34			1SS133	DIODE	T	
D32 ,33			HSS104	DIODE	E	
D32 ,33			1SS133	DIODE	E	
D34			HSS104	DIODE	KPYMX	
D34			1SS133	DIODE	KPYMX	
D35			HSS104	DIODE	E	
D35			1SS133	DIODE	E	
D36			HSS104	DIODE	YM	
D36			1SS133	DIODE	YM	
D40 -43			S5688B	DIODE		
D40 -43			1SR139-100	DIODE		
D44			HSS104	DIODE		
D44			1SS133	DIODE		
D45			HZS6.2N(B2)	ZENER DIODE		
D45			RD6.2ES(B2)	ZENER DIODE		
ED1		*	10-MT-58GK	INDICATOR TUBE		
IC1		*	UPD78044GF-021	IC(8BIT MICROPROCESSOR)		
IC2			PST529C	IC(SYSTEM RESET)		
IC3			NJM4565L	IC(OP AMP X2)		
IC201			TDA7330A	IC(RDS DEMODULATOR)	TE	
IC202			LC6543H-4600	IC	TE	
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		
Q1 ,2			2SC2785(F,E)	TRANSISTOR		
Q3			2SA1175(F,E)	TRANSISTOR	YM	
Q3			2SA933S(Q,R)	TRANSISTOR	YM	
Q4			2SC2003(L,K)	TRANSISTOR		
Q5			2SC3940A(R,S)	TRANSISTOR		

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A1			W02-1046-05	ELECTRIC CIRCUIT MODULE				
A1			W02-1153-05	ELECTRIC CIRCUIT MODULE				
RECEIVER UNIT (X14-368X-XX)								
C1 -4			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C5			CE04LW1C470M	ELECTRO	47UF	16WV		
C6			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C7			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C8			CE04LW1HR47M	ELECTRO	0.47UF	50WV		
C9			CC45FSL1H101J	CERAMIC	100PF	J		
C10			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C11			CE04LW1H3R3M	ELECTRO	3.3UF	50WV		
C12			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C13			CQ92FM1H153J	MYLAR	0.015UF	J		
C14 ,15			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C16			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C17			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C18			CE04LW1V100M	ELECTRO	10UF	35WV		
C19			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C20			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C21			CE04LW1C101M	ELECTRO	100UF	16WV		
C27 ,28			CQ92FM1H153J	MYLAR	0.015UF	J	YMX	
C27 ,28			CQ92FM1H183J	MYLAR	0.018UF	J	KP	
C27 ,28			CQ92FM1H392J	MYLAR	3900PF	J	TE	
C29 ,30			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C40			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C41			CC45FCH1H220J	CERAMIC	22PF	J		
C42			CC45FCH1H270J	CERAMIC	27PF	J		
C43 -45			CK45FB1H471K	CERAMIC	470PF	K		
C46 ,47			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C48			CQ92FM1H223J	MYLAR	0.022UF	J		
C49			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C50			CE04LW1C470M	ELECTRO	47UF	16WV		
C51			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C52			CE04LW1A470M	ELECTRO	47UF	10WV		
C56			CC45FCH1H220J	CERAMIC	22PF	J		
C62 -64			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C65			CE04LW1HR22M	ELECTRO	0.22UF	50WV		
C66			CE04LW1V100M	ELECTRO	10UF	35WV		
C67 ,68			CC45FSL1H101J	CERAMIC	100PF	J	KPYMX	
C67 ,68			CC45FSL1H221J	CERAMIC	220PF	J	TE	
C69			CE04LW1V100M	ELECTRO	10UF	35WV		
C70			CK45FB1H561K	CERAMIC	560PF	K		
C71			CQ92FM1H103J	MYLAR	0.010UF	J		
C83			CK45FB1H471K	CERAMIC	470PF	K		
C84 ,85			C91-0745-05	CERAMIC	100PF	K		
C106			CE04LW1C470M	ELECTRO	47UF	16WV		
C107			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C123			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	TE	
C135,136			CQ92FM1H682J	MYLAR	6800PF	J	YM	
C172			CC45FSL1H330J	CERAMIC	33PF	J	TE	
C173,174			CK45FB1H102K	CERAMIC	1000PF	K	TE	
C176			CK45FB1H102K	CERAMIC	1000PF	K	KPYMX	6
C177			CE04LW1A470M	ELECTRO	47UF	10WV	TE	
C178			CK45FF1H103Z	CERAMIC	0.010UF	Z	TE	

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C179,180			CE04LW1V100M	ELECTRO	10UF	35WV		
C181			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C182			CC45FSL1H150J	CERAMIC	15PF	J		
C201,202			CC45FSL1H390J	CERAMIC	39PF	J	E	6
C201,202			CC45FSL1H390J	CERAMIC	39PF	J	TE	7
C203,204			CE04LW1V100M	ELECTRO	10UF	35WV		
C205,206			CC45FSL1H221J	CERAMIC	220PF	J		
C207,208			CE04LW1A101M	ELECTRO	100UF	10WV		
C209,210			CK45FB1H102K	CERAMIC	1000PF	K		
C211,212			CQ92FM1H123J	MYLAR	0.012UF	J		
C213,214			CQ92FM1H332J	MYLAR	3300PF	J		
C215,216			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C219			CK45FB1H681K	CERAMIC	680PF	K		
C220			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C221-236			C91-0749-05	CERAMIC	220PF	K	TE	
C223,224			C91-0749-05	CERAMIC	220PF	K	KPYMX	7
C223,224			C91-0749-05	CERAMIC	220PF	K	KPYMXT	6
C227,228			C91-0749-05	CERAMIC	220PF	K	KPYMX	7
C227,228			C91-0749-05	CERAMIC	220PF	K	KPYMXT	6
C231,232			C91-0749-05	CERAMIC	220PF	K	KPYMX	7
C231,232			C91-0749-05	CERAMIC	220PF	K	KPYMXT	6
C237,238			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C239-242			CC45FSL1H221J	CERAMIC	220PF	J	TE	
C239,240			CC45FSL1H221J	CERAMIC	220PF	J	KPYMX	7
C239,240			CC45FSL1H221J	CERAMIC	220PF	J	KPYMXT	6
C243			CC45FSL1H101J	CERAMIC	100PF	J		
C244			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C245,246			CE04LW1V100M	ELECTRO	10UF	35WV		
C247,248			CE04LW1C101M	ELECTRO	100UF	16WV		
C249,250			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C251,252			CE04LW1C470M	ELECTRO	47UF	16WV		
C253			CK45FB1H102K	CERAMIC	1000PF	K		
C254			CE04LW1C470M	ELECTRO	47UF	16WV		
C255			CK45FB1H102K	CERAMIC	1000PF	K		
C256			CE04LW1C470M	ELECTRO	47UF	16WV		
C257			CK45FB1H102K	CERAMIC	1000PF	K		
C258			CE04LW1C470M	ELECTRO	47UF	16WV		
C259			CE04LW1V100M	ELECTRO	10UF	35WV		
C260			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C261			CE04LW1V100M	ELECTRO	10UF	35WV		
C262			CC45FSL1H101J	CERAMIC	100PF	J		
C263-270			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C271			CE04LW1A101M	ELECTRO	100UF	10WV		
C301,302			CE04LW1V100M	ELECTRO	10UF	35WV		7
C301,302			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C303,304			CF92FV1H224J	MF	0.22UF	J		7
C303,304			CF92FV1H224J	MF	0.22UF	J	KPYMXT	6
C305,306			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C305,306			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	KPYMXT	6
C307			CE04LW1V100M	ELECTRO	10UF	35WV		7
C307			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C308			CQ92FM1H682J	MYLAR	6800PF	J		7
C308			CQ92FM1H682J	MYLAR	6800PF	J	KPYMXT	6
C309,310			CK45FF1H103Z	CERAMIC	0.010UF	Z		7
C309,310			CK45FF1H103Z	CERAMIC	0.010UF	Z	KPYMXT	6

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C311			CE04LW1A101M	ELECTRO	100UF	10WV		7
C311			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C312			CF92FV1H104J	MF	0.10UF	J		7
C312			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C313-315			CE04LW1V100M	ELECTRO	10UF	35WV		7
C313-315			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C316			CF92FV1H104J	MF	0.10UF	J		7
C316			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C317			CE04LW1H010M	ELECTRO	1.0UF	50WV		7
C317			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPYMXT	6
C318-321			CQ92FM1H223J	MYLAR	0.022UF	J		7
C318-321			CQ92FM1H223J	MYLAR	0.022UF	J	KPYMXT	6
C322-325			CF92FV1H334J	MF	0.33UF	J		7
C322-325			CF92FV1H334J	MF	0.33UF	J	KPYMXT	6
C326,327			CF92FV1H224J	MF	0.22UF	J		7
C326,327			CF92FV1H224J	MF	0.22UF	J	KPYMXT	6
C328			CK45FB1H681K	CERAMIC	680PF	K		7
C328			CK45FB1H681K	CERAMIC	680PF	K	KPYMXT	6
C329,330			CF92FV1H104J	MF	0.10UF	J		7
C329,330			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C331			CK45FB1H681K	CERAMIC	680PF	K		7
C331			CK45FB1H681K	CERAMIC	680PF	K	KPYMXT	6
C332,333			CF92FV1H104J	MF	0.10UF	J		7
C332,333			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C334			CK45FF1H103Z	CERAMIC	0.010UF	Z		7
C334			CK45FF1H103Z	CERAMIC	0.010UF	Z	KPYMXT	6
C335			CE04LW1A101M	ELECTRO	100UF	10WV		7
C335			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C336			CF92FV1H104J	MF	0.10UF	J		7
C336			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C337			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV		7
C337			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV	KPYMXT	6
C338			CE04LW1V100M	ELECTRO	10UF	35WV		7
C338			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C339			CF92FV1H104J	MF	0.10UF	J		7
C339			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C340,341			CC45FSL1H101J	CERAMIC	100PF	J		7
C340,341			CC45FSL1H101J	CERAMIC	100PF	J	KPYMXT	6
C342			CE04LW1H010M	ELECTRO	1.0UF	50WV		7
C342			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPYMXT	6
C344			CE04LW1V100M	ELECTRO	10UF	35WV		7
C344			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C345,346			CE04LW1HR22M	ELECTRO	0.22UF	50WV		7
C345,346			CE04LW1HR22M	ELECTRO	0.22UF	50WV	KPYMXT	6
C347			CC45FSL1H101J	CERAMIC	100PF	J		7
C347			CC45FSL1H101J	CERAMIC	100PF	J	KPYMXT	6
C348			CE04LW1H010M	ELECTRO	1.0UF	50WV		7
C348			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPYMXT	6
C349			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C349			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	KPYMXT	6
C350			CQ92FM1H103J	MYLAR	0.010UF	J		7
C350			CQ92FM1H103J	MYLAR	0.010UF	J	KPYMXT	6
C351			CQ92FM1H123J	MYLAR	0.012UF	J		7
C351			CQ92FM1H123J	MYLAR	0.012UF	J	KPYMXT	6
C352			CK45FB1H821K	CERAMIC	820PF	K		7

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C352			CK45FB1H821K	CERAMIC	820PF	K	KPYMXT	6
C353			CQ92FM1H103J	MYLAR	0.010UF	J		7
C353			CQ92FM1H103J	MYLAR	0.010UF	J	KPYMXT	6
C354			CQ92FM1H123J	MYLAR	0.012UF	J		7
C354			CQ92FM1H123J	MYLAR	0.012UF	J	KPYMXT	6
C355			CK45FB1H821K	CERAMIC	820PF	K		7
C355			CK45FB1H821K	CERAMIC	820PF	K	KPYMXT	6
C356			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C356			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	KPYMXT	6
C357			CE04LW1A101M	ELECTRO	100UF	10WV		7
C357			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C358			CQ92FM1H392J	MYLAR	3900PF	J		7
C358			CQ92FM1H392J	MYLAR	3900PF	J	KPYMXT	6
C359			CE04LW1A101M	ELECTRO	100UF	10WV		7
C359			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C360			CF92FV1H104J	MF	0.10UF	J		7
C360			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C361			CE04LW1A101M	ELECTRO	100UF	10WV		7
C361			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C362			CE04LW1V100M	ELECTRO	10UF	35WV		7
C362			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C363			CE04LW1A101M	ELECTRO	100UF	10WV		7
C363			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C364			CF92FV1H104J	MF	0.10UF	J		7
C364			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C365			CK45FF1H103Z	CERAMIC	0.010UF	Z		7
C365			CK45FF1H103Z	CERAMIC	0.010UF	Z	KPYMXT	6
C366			CE04LW1A101M	ELECTRO	100UF	10WV		7
C366			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C367,368			CE04LW1V100M	ELECTRO	10UF	35WV		7
C367,368			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C369			CC45FSL1H101J	CERAMIC	100PF	J		7
C369			CC45FSL1H101J	CERAMIC	100PF	J	KPYMXT	6
C370			CQ92FM1H222J	MYLAR	2200PF	J		7
C370			CQ92FM1H222J	MYLAR	2200PF	J	KPYMXT	6
C371			CQ92FM1H102J	MYLAR	1000PF	J		7
C371			CQ92FM1H102J	MYLAR	1000PF	J	KPYMXT	6
C372			CE04LW1V100M	ELECTRO	10UF	35WV		7
C372			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C373			CE04LW1H010M	ELECTRO	1.0UF	50WV		7
C373			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPYMXT	6
C374			CE04LW1C470M	ELECTRO	47UF	16WV		7
C374			CE04LW1C470M	ELECTRO	47UF	16WV	KPYMXT	6
C375			CF92FV1H104J	MF	0.10UF	J		7
C375			CF92FV1H104J	MF	0.10UF	J	KPYMXT	6
C376			CF92FV1H334J	MF	0.33UF	J		7
C376			CF92FV1H334J	MF	0.33UF	J	KPYMXT	6
C377			CF92FV1H333J	MF	0.033UF	J		7
C377			CF92FV1H333J	MF	0.033UF	J	KPYMXT	6
C378			CQ92FM1H472J	MYLAR	4700PF	J		7
C378			CQ92FM1H472J	MYLAR	4700PF	J	KPYMXT	6
C379			CF92FV1H273J	MF	0.027UF	J		7
C379			CF92FV1H273J	MF	0.027UF	J	KPYMXT	6
C380			CE04LW1C220M	ELECTRO	22UF	16WV		7
C380			CE04LW1C220M	ELECTRO	22UF	16WV	KPYMXT	6

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C381			CE04LW1A101M	ELECTRO	100UF	10WV		7
C381			CE04LW1A101M	ELECTRO	100UF	10WV	KPYMXT	6
C382			CQ92FM1H822J	MYLAR	8200PF	J		7
C382			CQ92FM1H822J	MYLAR	8200PF	J	KPYMXT	6
C383			CE04LW1V100M	ELECTRO	10UF	35WV		7
C383			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C384			CE04LW1H010M	ELECTRO	1.0UF	50WV		7
C384			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPYMXT	6
C385			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		7
C385			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	KPYMXT	6
C386			CC45FSL1H101J	CERAMIC	100PF	J		7
C386			CC45FSL1H101J	CERAMIC	100PF	J	KPYMXT	6
C387			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C387			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	KPYMXT	6
C388			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		7
C388			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	KPYMXT	6
C389			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C389			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	KPYMXT	6
C390			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		7
C390			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	KPYMXT	6
C391			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C391			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	KPYMXT	6
C392			CC45FSL1H101J	CERAMIC	100PF	J		7
C392			CC45FSL1H101J	CERAMIC	100PF	J	KPYMXT	6
C393			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		7
C393			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	KPYMXT	6
C394			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C394			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	KPYMXT	6
C395,396			CE04LW1V100M	ELECTRO	10UF	35WV		7
C395,396			CE04LW1V100M	ELECTRO	10UF	35WV	KPYMXT	6
C397			CK45FB1H102K	CERAMIC	1000PF	K		7
C397			CK45FB1H102K	CERAMIC	1000PF	K	KPYMXT	6
C398			CE04LW1H010M	ELECTRO	1.0UF	50WV		7
C398			CE04LW1H010M	ELECTRO	1.0UF	50WV	KPYMXT	6
C399			CQ92FM1H392J	MYLAR	3900PF	J		7
C399			CQ92FM1H392J	MYLAR	3900PF	J	KPYMXT	6
C401-403			C90-3242-05	ELECTRO	4.7UF	35WV		7
C404			CE04LW1E101M	ELECTRO	100UF	25WV		7
C405			CK45FF1H103Z	CERAMIC	0.010UF	Z		7
C406			CE04LW1V100M	ELECTRO	10UF	35WV		7
C408			CE04LW1V100M	ELECTRO	10UF	35WV		7
C409			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		7
C410			CQ92FM1H103J	MYLAR	0.010UF	J		7
C411			CK45FB1H821K	CERAMIC	820PF	K		7
C412			CQ92FM1H123J	MYLAR	0.012UF	J		7
C413			CQ92FM1H103J	MYLAR	0.010UF	J		7
C414			CK45FB1H821K	CERAMIC	820PF	K		7
C415			CQ92FM1H123J	MYLAR	0.012UF	J		7
C416			C90-3242-05	ELECTRO	4.7UF	35WV		7
C417			C90-3205-05	ELECTRO	100UF	4WV		7
C418			CQ92FM1H392J	MYLAR	3900PF	J		7
C419			CE04LW1A101M	ELECTRO	100UF	10WV		7
C420,421			CF92FV1H104J	MF	0.10UF	J		7
C422,423			CE04LW1A101M	ELECTRO	100UF	10WV		7
C424			CC45FSL1H101J	CERAMIC	100PF	J		7

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C425			CQ92FM1H123J	MYLAR 0.012UF J		7
C426			CQ92FM1H112J	MYLAR 1100PF J		7
C427			CQ92FM1H133J	MYLAR 0.013UF J		7
C428			CQ92FM1H123J	MYLAR 0.012UF J		7
C429			CQ92FM1H112J	MYLAR 1100PF J		7
C430			CQ92FM1H133J	MYLAR 0.013UF J		7
C431,432			CE04LW1H010M	ELECTRO 1.0UF 50WV		7
C433,434			CC45FSL1H100D	CERAMIC 10PF D		7
C435			CE04LW1V100M	ELECTRO 10UF 35WV		7
C442			CE04LW1V100M	ELECTRO 10UF 35WV		7
C443,444		*	CE04LW1HR1M	ELECTRO 0.1MUF 50WV		7
C445,446			CE04LW1V100M	ELECTRO 10UF 35WV		7
C447			CK45FB1H102K	CERAMIC 1000PF K		7
C448			CC45FSL1H101J	CERAMIC 100PF J		7
C501-506			CQ92FM1H102J	MYLAR 1000PF J		7
C501-506			CQ92FM1H102J	MYLAR 1000PF J	KPYMXT	6
C507			CE04LW1V100M	ELECTRO 10UF 35WV		7
C507			CE04LW1V100M	ELECTRO 10UF 35WV	KPYMXT	6
CN3	1B		E40-4163-05	FLAT CABLE CONNCTOR	KPX	
CN3	1B		E40-4167-05	FLAT CABLE CONNCTOR	YMTE	
J1			E20-0321-05	LOCK TERMINAL BOARD ANTENNA	TE	
J1			E20-0476-05	LOCK TERMINAL BOARD ANTENNA	KPYMX	
J201			E63-0068-05	PHONO JACK PHONO		
J202,203			E63-0070-05	PHONO JACK CD,TAPE,VIDEO		
-			J11-0098-05	WIRE CLAMPER		6
CF1 ,2			L72-0531-05	CERAMIC FILTER	KPYMX	
CF1 ,2			L72-0536-05	CERAMIC FILTER	TE	
L1			L30-0467-05	AM IFT		
L2			L30-0439-25	FM IFT	KP	
L2			L30-0484-05	FM IFT	TE	
L2			L30-0494-05	FM IFT	YMX	
L3			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L6 ,7			L79-0790-05	LC FILTER	TE	
L8			L40-1091-17	SMALL FIXED INDUCTOR		
L9			L30-0485-05	FM IFT	TE	
L10			L40-1091-17	SMALL FIXED INDUCTOR	TE	
L11 -13			L40-1091-17	SMALL FIXED INDUCTOR	KPYMX	6
L106			L40-1091-17	SMALL FIXED INDUCTOR		
L107			L39-1309-05	COMBINATION COIL		
L108			L79-0125-05	LC FILTER	TE	
L301,302			L40-1091-17	SMALL FIXED INDUCTOR		7
L301,302			L40-1091-17	SMALL FIXED INDUCTOR	KPYMXT	6
L401,402			L40-1091-17	SMALL FIXED INDUCTOR		7
X1			L77-1122-05	CRYSTAL RESONATOR 7.200MHz		
X2			L78-0295-05	RESONATOR 19.000kHz		
X301			L78-0601-05	RESONATOR 7.160MHz		7
X301			L78-0601-05	RESONATOR 7.160MHz	KPYMXT	6
X401			L78-0601-05	RESONATOR 7.160MHz		7
C	1B		N09-0333-05	TAPPING SCREW (3X12)		
H	1B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
R8			RD14NB2E101J	RD 100 J 1/4W		
R21			RD14NB2E470J	RD 47 J 1/4W	TE	

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R21			RD14NB2E680J	RD 68 J 1/4W	KPYMX	
R37			RD14NB2E101J	RD 100 J 1/4W		
R53			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R111			RD14NB2E101J	RD 100 J 1/4W		
R177			RS14KB3D221J	FL-PROOF RS 220 J 2W	TE	
R261			RD14NB2E101J	RD 100 J 1/4W		
R276			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R303,304			RS14KB3D181J	FL-PROOF RS 180 J 2W		7
R303,304			RS14KB3D181J	FL-PROOF RS 180 J 2W	KPYMXT	6
R352			RD14NB2E470J	RD 47 J 1/4W		7
R352			RD14NB2E470J	RD 47 J 1/4W	KPYMXT	6
R374,375			RD14NB2E101J	RD 100 J 1/4W		7
R374,375			RD14NB2E101J	RD 100 J 1/4W	KPYMXT	6
VR1			R12-3688-05	TRIMMING POT.(47K) FM TUNED		
VR3			R12-3686-05	TRIMMING POT.(22K) AM TUNED		
VR5			R12-6663-05	TRIMMING POT.(330K)SEPARATION		
S101			S31-2132-05	SLIDE SWITCH DE ENPHASYS,CH	YM	
S401			S31-2132-05	SLIDE SWITCH IMPEDANCE SELECT		7
D3			HZS5.1N(B2)	ZENER DIODE		
D3			RD5.1ES(B2)	ZENER DIODE		
D6 ,7			HSS104	DIODE	TE	
D6 ,7			1SS133	DIODE	TE	
D111,112			HSS104	DIODE		
D111,112			1SS133	DIODE		
D117-121			HSS104	DIODE	TE	
D117-121			1SS133	DIODE	TE	
D123			HZS5.1N(B2)	ZENER DIODE	TE	
D123			RD5.1ES(B2)	ZENER DIODE	TE	
D124			HZS13N(B2)	ZENER DIODE		
D124			RD13ES(B2)	ZENER DIODE		
D125			HSS104	DIODE	TE	
D125			1SS133	DIODE	TE	
D201			HZS6.2N(B2)	ZENER DIODE		
D201			RD6.2ES(B2)	ZENER DIODE		
D202			HZS8.2N(B2)	ZENER DIODE		
D202			RD8.2ES(B2)	ZENER DIODE		
D203			HZS3.9N(B2)	ZENER DIODE		
D203			RD3.9ES(B2)	ZENER DIODE		
D204			HZS5.6N(B2)	ZENER DIODE		
D204			RD5.6ES(B2)	ZENER DIODE		
D205-214			HSS104	DIODE		
D205-214			1SS133	DIODE		
D301			HZS5.6N(B2)	ZENER DIODE		7
D301			HZS5.6N(B2)	ZENER DIODE	KPYMXT	6
D301			RD5.6ES(B2)	ZENER DIODE		7
D301			RD5.6ES(B2)	ZENER DIODE	KPYMXT	6
D302,303			HZS6.2N(B2)	ZENER DIODE		7
D302,303			HZS6.2N(B2)	ZENER DIODE	KPYMXT	6
D302,303			RD6.2ES(B2)	ZENER DIODE		7
D302,303			RD6.2ES(B2)	ZENER DIODE	KPYMXT	6
D401			HZS5.6N(B2)	ZENER DIODE		7
D401			RD5.6ES(B2)	ZENER DIODE		7
D402-407			HSS104	DIODE		7

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Y:AAFES(Europe) X:Australia M:Other Areas 7 : KR-V7050

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PARTS LIST

* New Parts
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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D402-407			1SS133	DIODE		7
IC1			LA1266	IC(AM/FM IF)		
IC2			LA3401	IC(FM MPX)		
IC3			LC7218	IC(PLL SYNTHESIZER)		
IC4			M5223P	IC(OP AMP X2)	TE	
IC201			NJM4580D-D	IC(OP AMP X2)		
IC202			NJU7313L	IC(ANALOG SWITCH)		
IC203			NJU7311L	IC(ANALOG SWITCH)		
IC204			NJM4580D-D	IC(OP AMP X2)		
IC205			NJU7312L	IC(ANALOG SWITCH)		
IC301		*	SSM2126P	IC(DOLBY SURROUND DECODER)		7
IC301		*	SSM2126P	IC(DOLBY SURROUND DECODER)	KPYMXT	6
IC302			NE571N	IC(COMPANDOR)		7
IC302			NE571N	IC(COMPANDOR)	KPYMXT	6
IC303			NJM4565L	IC(OP AMP X2)		7
IC303			NJM4565L	IC(OP AMP X2)	KPYMXT	6
IC304			YM7128B	IC(DIGITAL SURROUND)		7
IC304			YM7128B	IC(DIGITAL SURROUND)	KPYMXT	6
IC305			M5238AL	IC(OPAMP X2)		7
IC305			M5238AL	IC(OPAMP X2)	KPYMXT	6
IC306			LA2730	IC(DOLBY SYSTEM)		7
IC306			LA2730	IC(DOLBY SYSTEM)	KPYMXT	6
IC307			TC9213P	IC(2CH ELECTRONIC VOLUME)		7
IC307			TC9213P	IC(2CH ELECTRONIC VOLUME)	KPYMXT	6
IC308-310			NJM4565L	IC(OP AMP X2)		7
IC308-310			NJM4565L	IC(OP AMP X2)	KPYMXT	6
IC401			NJM4565L	IC(OP AMP X2)		7
IC402			YM7128B	IC(DIGITAL SURROUND)		7
IC403			M5238AL	IC(OPAMP X2)		7
IC404,405			NJM4565L	IC(OP AMP X2)		7
IC406			TC9215P	IC(ANALOG SWITCH X 6)		7
IC407			UPC4574C	IC(OP AMP X4)		7
Q1			2SC1923(R,O)	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		
Q3			2SC1740S(Q,R)	TRANSISTOR	KPYMX	
Q3			2SC2785(F,E)	TRANSISTOR	KPYMX	
Q3 ,4			2SC1740S(Q,R)	TRANSISTOR	TE	
Q3 ,4			2SC2785(F,E)	TRANSISTOR	TE	
Q7			2SC1740S(Q,R)	TRANSISTOR	KPYMX	
Q7			2SC2785(F,E)	TRANSISTOR	KPYMX	
Q7 ,8			2SC1740S(Q,R)	TRANSISTOR	TE	
Q7 ,8			2SC2785(F,E)	TRANSISTOR	TE	
Q9			2SA1175(F,E)	TRANSISTOR	TE	
Q9			2SA933S(Q,R)	TRANSISTOR	TE	
Q10			2SC1740S(Q,R)	TRANSISTOR	TE	
Q10			2SC2785(F,E)	TRANSISTOR	TE	
Q102			2SA1175(F,E)	TRANSISTOR		
Q102			2SA933S(Q,R)	TRANSISTOR		
Q104			2SA1175(F,E)	TRANSISTOR		
Q104			2SA933S(Q,R)	TRANSISTOR		
Q107,108			2SC1740S(Q,R)	TRANSISTOR	YM	
Q107,108			2SC2785(F,E)	TRANSISTOR	YM	
Q113			2SD2012	TRANSISTOR		
Q113			2SD2061	TRANSISTOR		
Q113			2SD2374	TRANSISTOR		

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Q201			2SD2012	TRANSISTOR		
Q201			2SD2061	TRANSISTOR		
Q201			2SD2374	TRANSISTOR		
Q202,203			2SC1740S(Q,R)	TRANSISTOR		
Q202,203			2SC2458(Y,GR)	TRANSISTOR		
Q202,203			2SC2785(F,E)	TRANSISTOR		
Q202,203			2SC3311A(Q,R)	TRANSISTOR		
Q204			2SD2012	TRANSISTOR		
Q204			2SD2061	TRANSISTOR		
Q204			2SD2374	TRANSISTOR		
Q205,206			2SA1048(Y,GR)	TRANSISTOR		
Q205,206			2SA1175(F,E)	TRANSISTOR		
Q205,206			2SA1309A(Q,R)	TRANSISTOR		
Q205,206			2SA933S(Q,R)	TRANSISTOR		
Q207,208			2SC2878(B)	TRANSISTOR		
Q209,210			2SC1740S(Q,R)	TRANSISTOR		
Q209,210			2SC2458(Y,GR)	TRANSISTOR		
Q209,210			2SC2785(F,E)	TRANSISTOR		
Q209,210			2SC3311A(Q,R)	TRANSISTOR		
Q211			2SC2003(L,K)	TRANSISTOR		
Q212			2SA1048(Y,GR)	TRANSISTOR		
Q212			2SA1175(F,E)	TRANSISTOR		
Q212			2SA1309A(Q,R)	TRANSISTOR		
Q212			2SA933S(Q,R)	TRANSISTOR		
Q213			2SC1740S(Q,R)	TRANSISTOR		
Q213			2SC2458(Y,GR)	TRANSISTOR		
Q213			2SC2785(F,E)	TRANSISTOR		
Q213			2SC3311A(Q,R)	TRANSISTOR		
Q301			2SC2003(L,K)	TRANSISTOR		7
Q301			2SC2003(L,K)	TRANSISTOR	KPYMXT	6
Q303,304			2SC1740S(Q,R)	TRANSISTOR		7
Q303,304			2SC1740S(Q,R)	TRANSISTOR	KPYMXT	6
Q303,304			2SC2458(Y,GR)	TRANSISTOR		7
Q303,304			2SC2458(Y,GR)	TRANSISTOR	KPYMXT	6
Q303,304			2SC2785(F,E)	TRANSISTOR		7
Q303,304			2SC2785(F,E)	TRANSISTOR	KPYMXT	6
Q303,304			2SC3311A(Q,R)	TRANSISTOR		7
Q303,304			2SC3311A(Q,R)	TRANSISTOR	KPYMXT	6
Q306			2SC1740S(Q,R)	TRANSISTOR		7
Q306			2SC1740S(Q,R)	TRANSISTOR	KPYMXT	6
Q306			2SC2458(Y,GR)	TRANSISTOR		7
Q306			2SC2458(Y,GR)	TRANSISTOR	KPYMXT	6
Q306			2SC2785(F,E)	TRANSISTOR		7
Q306			2SC2785(F,E)	TRANSISTOR	KPYMXT	6
Q306			2SC3311A(Q,R)	TRANSISTOR		7
Q306			2SC3311A(Q,R)	TRANSISTOR	KPYMXT	6
Q401			2SC2003(L,K)	TRANSISTOR		7
Q403-406			2SC2878(B)	TRANSISTOR		7
			W02-1041-15	FM FRONT-END ASSY	TE	
			W02-1042-15	FM FRONT-END ASSY	KPYMX	

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SPECIFICATIONS

[K, P, M, X, Y type]

(For U.S.A. and Canada)

Audio section

Rated power output at the STEREO operation

100 watts per channel minimum RMS, both channels driven at 8 Ω, from 20 Hz to 20,000 Hz with no more than 0.06% total harmonic distortions. (FTC)

Power output at the Surround operation
- Front (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 65 W + 65 W
- Center (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 65 W
- Rear (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 20 W + 20 W

Total harmonic distortion (1 kHz, 8 Ω) .... 0.03% at 50 W
Signal to noise ratio (IHF A)
- PHONO (MM) ..... 78 dB
- CD, TAPE, VIDEO ..... 100 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 47 kΩ
- CD, TAPE, VIDEO ..... 200 mV / 47 kΩ

Tone controls
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

Loudness control at – 30 dB VOLUME level
..... 0 ~ + 8 dB (100 Hz)

Video section

VIDEO inputs / outputs(Composite) ..... 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range ..... 87.5 MHz~108 MHz
Usable sensitivity (IHF)..... 10.8 dBf (0.95 μV at 75 Ω)
50 dB quieting sensitivity
- MONO ..... 17.2 dBf (2.0 μV at 75 Ω)
- STEREO ..... 41.2 dBf (32 μV at 75 Ω)

Total harmonic distortion at 1 kHz
- MONO 0.4%
- STEREO 0.5%

Signal to noise ratio at 65 dBf (IHF)
- MONO ..... 78 dB
- STEREO ..... 73 dB

Selectivity (IHF ±400 kHz) ..... 53 dB
Stereo separation (IHF at 1 kHz) ..... 45 dB
Frequency response .. 30 Hz~15 kHz, +0.5 dB,– 2.0 dB

AM Tuner section

Tuning frequency range ..... 530 kHz~1,700 kHz
Usable sensitivity ..... 12 μV / (400 μV / m)
Total harmonic distortion ..... 0.3 %
Signal to noise ratio ..... 50 dB
Selectivity ..... 30 dB

General

Power consumption ..... 3 A
AC outlet
- SWITCHED ..... 2: (total 200 W, 1.6 A max.)

Dimensions ..... W:440 mm (17-5/16")
H:147 mm (5-13/16")
D:403 mm (15-7/8")

Weight (net) ..... 11.4 kg (25.1 lb)

(For other countries)

Audio section

Rated power output at the STEREO operation
(IHF '66) from 20 Hz to 20 kHz,
0.06% T.H.D., at 8 Ω ..... 100 W + 100 W

Power output at the Surround operation
- Front (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 65 W + 65 W
- Center (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 65 W
- Rear (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 20 W + 20 W

Total harmonic distortion (1 kHz, 8 Ω) 0.03% at 50 W
Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 78 dB
- CD, TAPE, VIDEO ..... 100 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 47 kΩ
- CD, TAPE, VIDEO ..... 200 mV / 47kΩ

Tone controls
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

Loudness control at – 30 dB VOLUME level
..... 0 ~ + 8 dB (100 Hz)

Video section

VIDEO inputs / outputs(Composite) ..... 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range ..... 87.5 MHz~108 MHz
Usable sensitivity (IHF)..... 10.8 dBf (0.95 μV at 75 Ω)
50 dB quieting sensitivity
- MONO ..... 17.2 dBf (2.0 μV at 75 Ω)
- STEREO ..... 41.2 dBf (32 μV at 75 Ω)

Total harmonic distortion at 1 kHz
- MONO ..... 0.4 %
- STEREO ..... 0.5 %

Signal to noise ratio at 65 dBf (IHF)
- MONO ..... 78 dB
- STEREO ..... 73 dB

Selectivity (IHF ± 400 kHz) ..... 53 dB
Stereo separation (IHF at 1 kHz) ..... 45 dB
Frequency response . 30 Hz~15 kHz, + 0.5 dB,– 2.0 dB

AM Tuner section

Tuning frequency range
- 9 kHz ..... 531 kHz ~ 1,602 kHz
- 10 kHz ..... 530 kHz ~ 1,610 kHz

Usable sensitivity ..... 12 μV / (400 μV / m)
Total harmonic distortion ..... 0.3 %
Signal to noise ratio ..... 50 dB
Selectivity ..... 30 dB

General

Power consumption ..... 280 W
AC outlet
- SWITCHED ..... 2: (total 200 W max.) (Except for Australia)

Dimensions ..... W:440 mm
H:147 mm
D:403 mm

Weight (net) ..... 11.4 kg

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice

KR-V6050/7050

SPECIFICATIONS

[E, T type]

Audio section

Rated power output at the STEREO operation
at 1 kHz, 8 Ω (DIN) ---------- 100 W + 100 W
Power output at the Surround operation
Front (1 kHz, 0.9% at 8 Ω) --------- 65 W + 65 W
Center (1 kHz, 0.9% at 8 Ω) ---------- 65 W
Rear (1 kHz, 0.9% at 8 Ω) --------- 20 W + 20 W
Total harmonic distortion (1 kHz, 8 Ω) 0.03% at 50 W
Signal to noise ratio
PHONO (MM) ---------- 56 dB (DIN, 50 mW output)
CD, TAPE, VIDEO ---------- 57dB (DIN, 50 mW output)
Input sensitivity / impedance
PHONO (MM) ---------- 2.5 mV / 47 kΩ
CD, TAPE, VIDEO ---------- 200 mV / 47kΩ
Tone controls
BASS ---------- ±10 dB (at 100 Hz)
TREBLE ---------- ±10 dB (at 10 kHz)
Loudness control at 30 dB
VOLUME level ---------- 0 ~ + 8 dB (100 Hz)

Video section

VIDEO inputs/outputs
(composite) ---------- 1 Vp-p/75Ω

FM Tuner section

Tuning frequency range ---------- 87.5 MHz~108 MHz
Usable sensitivity (DIN at 75 Ω)
MONO ---------- 1.1 μV
STEREO ---------- 45 μV
Total harmonic distortion at 1 kHz (DIN)
MONO ---------- 0.15%
STEREO ---------- 0.5%
Signal to noise ratio (DIN weighted at 1 kHz)
MONO ---------- 68 dB (65.2 dBf input)
STEREO ---------- 61 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz) ---------- 53 dB
Stereo separation (DIN)
1 kHz ---------- 40 dB
6.3 kHz ---------- 33 dB
Frequency response ---- 30 Hz~15 kHz, + 0.5 dB, – 2.0 dB

AM Tuner section

Tuning frequency range ---------- 531 kHz ~ 1,602 kHz
Usable sensitivity ---------- 12 μV / (400 μV / m)
Total harmonic distortion ---------- 0.3 %
Signal to noise ratio
(at 30% mod. 1mV input) ---------- 50 dB
Selectivity ---------- 30 dB

General

Power consumption ---------- 280 W
AC outlet
SWITCHED ---------- 2: (total 200 W max)
Dimensions ---------- W:440 mm
H:147 mm
D:403 mm
Weight (net) ---------- 11.4 kg